

| MECHANICAL VENTILATION SCHEDULE | | | | | | | | | | | | | | | |
|---------------------------------|--------------------------------|------------------|-------------------|--------------------------|------------------------------------|----------------|-----------------------|------------------|--------------------------------------|---------------------------------|---------|---------------------------------------|---------|--|---------|
| ROOM | OCCUPANY CLASSIFICATION | FLOOR AREA (FT²) | ROOM VOLUME (FT³) | OCCUPANCY CLASSIFICATION | OCCUPANT LOAD (OCCUPANT/1,000 FT²) | # OF OCCUPANTS | REQUIRED CFM/OCCUPANT | REQUIRED CFM/FT² | BREATHING ZONE OUTDOOR AIRFLOW (CFM) | ZONE DISTRIBUTION EFFECTIVENESS | | TOTAL ROOM OUTDOOR AIR REQUIRED (CFM) | | ACTUAL ROOM OUTDOOR AIRFLOW RATE (CFM) | |
| | | | | | | | | | | COOLING | HEATING | COOLING | HEATING | COOLING | HEATING |
| 1 | KINDERGARTEN SPECIAL EDUCATION | 889 | 8890 | CLASSROOMS (AGES 5 -8) | 25 | 23 | 10 | 0.12 | 337 | 0.8 | 0.8 | 421 | 421 | 425 | 425 |
| 2 | FIRST GRADE SPECIAL EDUCATION | 707 | 7070 | CLASSROOMS (AGES 5 -8) | 25 | 18 | 10 | 0.12 | 265 | 0.8 | 0.8 | 331 | 331 | 340 | 340 |
| 3 | 2ND & 3RD SPECIAL EDUCATION | 784 | 7840 | CLASSROOMS (AGES 5 -8) | 25 | 20 | 10 | 0.12 | 294 | 0.8 | 0.8 | 368 | 368 | 370 | 370 |
| 4 | READING/RESOURCE ROOM | 343 | 3430 | OFFICE SPACES | 5 | 2 | 5 | 0.06 | 31 | 0.8 | 0.8 | 39 | 39 | 40 | 40 |
| 5 | KINDERGARTEN | 876 | 8760 | CLASSROOMS (AGES 5 -8) | 25 | 22 | 10 | 0.12 | 325 | 0.8 | 0.8 | 406 | 406 | 410 | 410 |
| 6 | KINDERGARTEN | 888 | 8880 | CLASSROOMS (AGES 5 -8) | 25 | 23 | 10 | 0.12 | 337 | 0.8 | 0.8 | 421 | 421 | 425 | 425 |
| 7 | KINDERGARTEN | 867 | 8670 | CLASSROOMS (AGES 5 -8) | 25 | 22 | 10 | 0.12 | 324 | 0.8 | 0.8 | 405 | 405 | 405 | 405 |
| 8 | KINDERGARTEN | 878 | 8780 | CLASSROOMS (AGES 5 -8) | 25 | 22 | 10 | 0.12 | 325 | 0.8 | 0.8 | 406 | 406 | 410 | 410 |
| 9 | KINDERGARTEN | 867 | 8670 | CLASSROOMS (AGES 5 -8) | 25 | 22 | 10 | 0.12 | 324 | 0.8 | 0.8 | 405 | 405 | 405 | 405 |
| 10 | 1ST GRADE | 865 | 8650 | CLASSROOMS (AGES 5 -8) | 25 | 22 | 10 | 0.12 | 324 | 0.8 | 0.8 | 405 | 405 | 405 | 405 |
| 11 | KINDERGARTEN | 872 | 8720 | CLASSROOMS (AGES 5 -8) | 25 | 22 | 10 | 0.12 | 325 | 0.8 | 0.8 | 406 | 406 | 410 | 410 |
| 12 | 1ST GRADE | 857 | 8570 | CLASSROOMS (AGES 5 -8) | 25 | 22 | 10 | 0.12 | 323 | 0.8 | 0.8 | 404 | 404 | 405 | 405 |
| 13 | KINDERGARTEN | 926 | 9260 | CLASSROOMS (AGES 5 -8) | 25 | 24 | 10 | 0.12 | 351 | 0.8 | 0.8 | 439 | 439 | 440 | 440 |
| 14 | KINDERGARTEN | 877 | 8770 | CLASSROOMS (AGES 5 -8) | 25 | 22 | 10 | 0.12 | 325 | 0.8 | 0.8 | 406 | 406 | 410 | 410 |
| 15 | KINDERGARTEN | 959 | 9590 | CLASSROOMS (AGES 5 -8) | 25 | 24 | 10 | 0.12 | 355 | 0.8 | 0.8 | 444 | 444 | 445 | 445 |
| 16 | 2ND GRADE | 850 | 8500 | CLASSROOMS (AGES 5 -8) | 25 | 22 | 10 | 0.12 | 322 | 0.8 | 0.8 | 403 | 403 | 405 | 405 |
| 17 | 2ND GRADE | 853 | 8530 | CLASSROOMS (AGES 5 -8) | 25 | 22 | 10 | 0.12 | 322 | 0.8 | 0.8 | 403 | 403 | 405 | 405 |
| 18 | 2ND GRADE | 861 | 8610 | CLASSROOMS (AGES 5 -8) | 25 | 22 | 10 | 0.12 | 323 | 0.8 | 0.8 | 404 | 404 | 405 | 405 |
| 19 | 2ND GRADE | 856 | 8560 | CLASSROOMS (AGES 5 -8) | 25 | 22 | 10 | 0.12 | 323 | 0.8 | 0.8 | 404 | 404 | 405 | 405 |
| 20 | 2ND GRADE | 856 | 8560 | CLASSROOMS (AGES 5 -8) | 25 | 22 | 10 | 0.12 | 323 | 0.8 | 0.8 | 404 | 404 | 405 | 405 |
| 21 | 2ND GRADE | 858 | 8580 | CLASSROOMS (AGES 5 -8) | 25 | 22 | 10 | 0.12 | 323 | 0.8 | 0.8 | 404 | 404 | 405 | 405 |
| 22 | 2ND GRADE | 852 | 8520 | CLASSROOMS (AGES 5 -8) | 25 | 22 | 10 | 0.12 | 322 | 0.8 | 0.8 | 403 | 403 | 405 | 405 |
| 23 | 2ND GRADE | 864 | 8640 | CLASSROOMS (AGES 5 -8) | 25 | 22 | 10 | 0.12 | 324 | 0.8 | 0.8 | 405 | 405 | 405 | 405 |
| 24 | CLASSROOM | 275 | 2750 | CLASSROOMS (AGES 5 -8) | 25 | 7 | 10 | 0.12 | 103 | 0.8 | 0.8 | 129 | 129 | 130 | 130 |
| 25 | KINDERGARTEN | 937 | 9370 | CLASSROOMS (AGES 5 -8) | 25 | 24 | 10 | 0.12 | 352 | 0.8 | 0.8 | 440 | 440 | 440 | 440 |
| 26 | 3RD GRADE | 758 | 7580 | CLASSROOMS (AGES 5 -8) | 25 | 19 | 10 | 0.12 | 281 | 0.8 | 0.8 | 351 | 351 | 355 | 355 |
| 27 | 3RD GRADE | 753 | 7530 | CLASSROOMS (AGES 5 -8) | 25 | 19 | 10 | 0.12 | 280 | 0.8 | 0.8 | 350 | 350 | 350 | 350 |
| 28 | 3RD GRADE | 766 | 7660 | CLASSROOMS (AGES 5 -8) | 25 | 20 | 10 | 0.12 | 292 | 0.8 | 0.8 | 365 | 365 | 365 | 365 |
| 29 | 3RD GRADE | 746 | 7460 | CLASSROOMS (AGES 5 -8) | 25 | 19 | 10 | 0.12 | 280 | 0.8 | 0.8 | 350 | 350 | 350 | 350 |
| 30 | 3RD GRADE | 761 | 7610 | CLASSROOMS (AGES 5 -8) | 25 | 20 | 10 | 0.12 | 291 | 0.8 | 0.8 | 364 | 364 | 365 | 365 |
| 31 | 3RD GRADE BL | 757 | 7570 | CLASSROOMS (AGES 5 -8) | 25 | 19 | 10 | 0.12 | 281 | 0.8 | 0.8 | 351 | 351 | 355 | 355 |
| 32 | 2ND GRADE | 758 | 7580 | CLASSROOMS (AGES 5 -8) | 25 | 19 | 10 | 0.12 | 281 | 0.8 | 0.8 | 351 | 351 | 355 | 355 |
| 33 | 2ND GRADE | 757 | 7570 | CLASSROOMS (AGES 5 -8) | 25 | 19 | 10 | 0.12 | 281 | 0.8 | 0.8 | 351 | 351 | 355 | 355 |
| 34 | 2ND GRADE | 753 | 7530 | CLASSROOMS (AGES 5 -8) | 25 | 19 | 10 | 0.12 | 280 | 0.8 | 0.8 | 350 | 350 | 350 | 350 |
| 35 | 3RD GRADE | 748 | 7480 | CLASSROOMS (AGES 5 -8) | 25 | 19 | 10 | 0.12 | 280 | 0.8 | 0.8 | 350 | 350 | 350 | 350 |
| 36 | 2ND GRADE | 753 | 7530 | CLASSROOMS (AGES 5 -8) | 25 | 19 | 10 | 0.12 | 280 | 0.8 | 0.8 | 350 | 350 | 350 | 350 |
| 37 | 3RD GRADE | 752 | 7520 | CONFERENCE ROOMS | 50 | 38 | 5 | 0.06 | 235 | 0.8 | 0.8 | 294 | 294 | 295 | 295 |
| 38 | RESOURCE ROOM | 305 | 3050 | OFFICE SPACES | 5 | 2 | 5 | 0.06 | 28 | 0.8 | 0.8 | 35 | 35 | 35 | 35 |
| 39 | FRC/RESOURCE ROOM | 217 | 2170 | OFFICE SPACES | 5 | 2 | 5 | 0.06 | 23 | 0.8 | 0.8 | 29 | 29 | 30 | 30 |
| 43 | COMPUTER LAB | 757 | 7570 | COMPUTER LAB | 25 | 19 | 10 | 0.12 | 281 | 0.8 | 0.8 | 351 | 351 | 355 | 355 |
| 44 | 3RD GRADE | 825 | 8250 | CLASSROOMS (AGES 5 -8) | 25 | 21 | 10 | 0.12 | 309 | 0.8 | 0.8 | 386 | 386 | 390 | 390 |
| 45 | KINDERGARTEN | 981 | 9810 | CLASSROOMS (AGES 5 -8) | 25 | 25 | 10 | 0.12 | 368 | 0.8 | 0.8 | 460 | 460 | 460 | 460 |
| 46 | ENL OFFICE | 634 | 6340 | CLASSROOMS (AGES 5 -8) | 25 | 16 | 10 | 0.12 | 236 | 0.8 | 0.8 | 295 | 295 | 295 | 295 |
| 47 | KINDERGARTEN | 976 | 9760 | CLASSROOMS (AGES 5 -8) | 25 | 25 | 10 | 0.12 | 367 | 0.8 | 0.8 | 459 | 459 | 460 | 460 |
| 48 | MAIL/COPY/BOOK ROOM | 586 | 5860 | OFFICE SPACES | 5 | 3 | 5 | 0.06 | 50 | 0.8 | 0.8 | 63 | 63 | 65 | 65 |
| 49 | ART | 1125 | 11250 | ART CLASSROOM | 20 | 23 | 10 | 0.18 | 433 | 0.8 | 0.8 | 541 | 541 | 545 | 545 |
| 51 | KINDERGARTEN | 1001 | 10010 | CLASSROOMS (AGES 5 -8) | 25 | 25 | 10 | 0.12 | 370 | 0.8 | 0.8 | 463 | 463 | 465 | 465 |
| 55 | CUSTODIAN OFFICE | 432 | 4320 | OFFICE SPACES | 5 | 3 | 5 | 0.06 | 41 | 0.8 | 0.8 | 51 | 51 | 55 | 55 |
| 56 | SPEECH/RESOURCE ROOM | 141 | 1410 | OFFICE SPACES | 5 | 1 | 5 | 0.06 | 13 | 0.8 | 0.8 | 16 | 16 | 20 | 20 |
| 57 | AV/RESOURCE ROOM | 133 | 1330 | OFFICE SPACES | 5 | 1 | 5 | 0.06 | 13 | 0.8 | 0.8 | 16 | 16 | 20 | 20 |
| 58 | PSYCH A | 159 | 1590 | OFFICE SPACES | 5 | 1 | 5 | 0.06 | 15 | 0.8 | 0.8 | 19 | 19 | 20 | 20 |
| 59 | PSYCH B | 190 | 1900 | OFFICE SPACES | 5 | 1 | 5 | 0.06 | 16 | 0.8 | 0.8 | 20 | 20 | 20 | 20 |
| 61 | CAFETERIA AREA | 503 | 5030 | CAFETERIA | 100 | 51 | 7.5 | 0.18 | 473 | 0.8 | 0.8 | 591 | 591 | 595 | 595 |
| 61A | OFFICE | 88 | 880 | OFFICE SPACES | 5 | 1 | 5 | 0.06 | 10 | 0.8 | 0.8 | 13 | 13 | 15 | 15 |
| 61B | OFFICE | 104 | 1040 | OFFICE SPACES | 5 | 1 | 5 | 0.06 | 11 | 0.8 | 0.8 | 14 | 14 | 15 | 15 |
| 12A | PRINCIPLES OFFICE | 306 | 3060 | OFFICE SPACES | 5 | 2 | 5 | 0.06 | 28 | 0.8 | 0.8 | 35 | 35 | 35 | 35 |
| 12C | ASSIT. PRIN. | 139 | 1390 | OFFICE SPACES | 5 | 1 | 5 | 0.06 | 13 | 0.8 | 0.8 | 16 | 16 | 20 | 20 |
| 12D | ADMIN OFFICE | 926 | 9260 | OFFICE SPACES | 5 | 5 | 5 | 0.06 | 81 | 0.8 | 0.8 | 101 | 101 | 105 | 105 |
| 13B | STAFF LOUNGE | 680 | 6800 | OFFICE SPACES | 5 | 4 | 5 | 0.06 | 61 | 0.8 | 0.8 | 76 | 76 | 80 | 80 |
| 1A | NET LAB RESOURCE ROOM | 334 | 3340 | OFFICE SPACES | 5 | 2 | 5 | 0.06 | 30 | 0.8 | 0.8 | 38 | 38 | 40 | 40 |
| 40 & 42 | READING/RESOURCE ROOM | 923 | 9230 | OFFICE SPACES | 5 | 5 | 5 | 0.06 | 80 | 0.8 | 0.8 | 100 | 100 | 100 | 100 |
| 45A | NURSE | 451 | 4510 | OFFICE SPACES | 5 | 3 | 5 | 0.06 | 42 | 0.8 | 0.8 | 53 | 53 | 55 | 55 |
| 45B | NURSE OFFICE | 62 | 620 | OFFICE SPACES | 5 | 1 | 5 | 0.06 | 9 | 0.8 | 0.8 | 11 | 11 | 15 | 15 |
| 46A | OFFICE | 152 | 1520 | OFFICE SPACES | 5 | 1 | 5 | 0.06 | 14 | 0.8 | 0.8 | 18 | 18 | 20 | 20 |
| 46B | CONFRENCE ROOM | 152 | 1520 | CONFERENCE ROOMS | 50 | 8 | 5 | 0.06 | 49 | 0.8 | 0.8 | 61 | 61 | 65 | 65 |
| 46F | LIBRARY | 2311 | 36976 | MEDIA CENTER | 10 | 24 | 5 | 0.12 | 397 | 0.8 | 0.8 | 496 | 496 | 500 | 500 |
| 46G | LIBRARY OFFICE | 234 | 2340 | OFFICE SPACES | 5 | 2 | 5 | 0.06 | 24 | 0.8 | 0.8 | 30 | 30 | 30 | 30 |
| 46H | LIBRARY OFFICE | 67 | 670 | OFFICE SPACES | 5 | 1 | 5 | 0.06 | 9 | 0.8 | 0.8 | 11 | 11 | 15 | 15 |
| 49A | RESOURCE ROOM | 223 | 2230 | OFFICE SPACES | 5 | 2 | 5 | 0.06 | 23 | 0.8 | 0.8 | 29 | 29 | 30 | 30 |
| 49B | OFFICE | 114 | 1140 | OFFICE SPACES | 5 | 1 | 5 | 0.06 | 12 | 0.8 | 0.8 | 15 | 15 | 15 | 15 |
| 52A | COUNSELOR | 232 | 2320 | OFFICE SPACES | 5 | 2 | 5 | 0.06 | 24 | 0.8 | 0.8 | 30 | 30 | 30 | 30 |
| 52B | SOCIAL WORKER | 192 | 1920 | OFFICE SPACES | 5 | 1 | 5 | 0.06 | 17 | 0.8 | 0.8 | 21 | 21 | 25 | 25 |
| 54E | SPEECH | 173 | 1730 | OFFICE SPACES | 5 | 1 | 5 | 0.06 | 15 | 0.8 | 0.8 | 19 | 19 | 20 | 20 |
| 55E | SPEECH | 182 | 1820 | OFFICE SPACES | 5 | 1 | 5 | 0.06 | 16 | 0.8 | 0.8 | 20 | 20 | 20 | 20 |

| BOOSTER FAN SCHEDULE | | | | | | | | | | |
|----------------------|---------|--------|--------|---------------|-------------|-----------------|----------|-------------|--------|-----------|
| UNIT TAG | SERVES | FAN | | | | BASIS OF DESIGN | | | NOTES | |
| | | TYPE | DRIVE | AIRFLOW (CFM) | ESP (IN WC) | MOTOR HP | V/PH/H Z | MANUFATURER | | |
| BF-1A | CC-1A | INLINE | DIRECT | 35 | 0.25 | 0.45 | 120/1/60 | S&P | TD-100 | SEE NOTES |
| BF-38 | CC-38 | INLINE | DIRECT | 30 | 0.25 | 0.45 | 120/1/60 | S&P | TD-100 | SEE NOTES |
| BF-39 | CC-38 | INLINE | DIRECT | 35 | 0.25 | 0.45 | 120/1/60 | S&P | TD-100 | SEE NOTES |
| BF-42-1 | CC-42-1 | INLINE | DIRECT | 50 | 0.25 | 0.45 | 120/1/60 | S&P | TD-100 | SEE NOTES |
| BF-42-2 | CC-42-2 | INLINE | DIRECT | 45 | 0.25 | 0.45 | 120/1/60 | S&P | TD-100 | SEE NOTES |
| BF-43-1 | CC-43-1 | INLINE | DIRECT | 165 | 0.25 | 0.75 | 120/1/60 | S&P | TD-150 | SEE NOTES |
| BF-43-2 | CC-43-2 | INLINE | DIRECT | 170 | 0.25 | 0.75 | 120/1/60 | S&P | TD-150 | SEE NOTES |
| BF-50 | CC-50 | INLINE | DIRECT | 30 | 0.25 | 0.45 | 120/1/60 | S&P | TD-100 | SEE NOTES |
| BF-55 | CC-55 | INLINE | DIRECT | 50 | 0.25 | 0.45 | 120/1/60 | S&P | TD-100 | SEE NOTES |
| BF-61A | CC-61A | INLINE | DIRECT | 15 | 0.25 | 0.45 | 120/1/60 | S&P | TD-100 | SEE NOTES |
| BF-61B | CC-61B | INLINE | DIRECT | 15 | 0.25 | 0.45 | 120/1/60 | S&P | TD-100 | SEE NOTES |

BOOSTER FAN SCHEDULE NOTES:
1. PROVIDE ELECTONICALLY COMMUTATED MOTOR, DISCONNECT SWITCH, MOTORIZED BACKDRAFT DAMPER, AND PROGRAMABLE TIMECLOCK.

| BRANCH CONTROLLER SCHEDULE | | | | | | | | | |
|----------------------------|-----------------|----------------------------|-----------------|----------------------------------|----------|--------------------|--------------------|-----|-------|
| UNIT TAG | MODEL NUMBER | TYPE (DOUBLE / MAIN / SUB) | NUMBER OF PORTS | CONNECTED CAPACITY TO BC (BTU/H) | V/PH/HZ | POWER COOLING (KW) | POWER HEATING (KW) | MCA | NOTES |
| BC-1A | TCMBM0108JA11N4 | MAIN | 8 | 288,000.0 | 208/1/60 | 0.66 | 0.37 | 0.8 | NOTES |
| BC-1B | TCMBM0108JA11N4 | MAIN | 8 | 264,000.0 | 208/1/60 | 0.66 | 0.37 | 0.8 | NOTES |
| BC-2 | TCMBM0102JA11N4 | MAIN | 12 | 414,000.0 | 208/1/60 | 0.95 | 0.52 | 1.2 | NOTES |
| BC-3A | TCMBM0102JA11N4 | MAIN | 12 | 288,000.0 | 208/1/60 | 0.95 | 0.52 | 1.2 | NOTES |
| BC-3B | TCMBM0102JA11N4 | MAIN | 12 | 288,000.0 | 208/1/60 | 0.95 | 0.52 | 1.2 | NOTES |
| BC-4 | TCMBM0102JA11N4 | MAIN | 12 | 306,000.0 | 208/1/60 | 0.95 | 0.52 | 1.2 | NOTES |
| BC-5 | TCMBM0102JA11N4 | MAIN | 12 | 318,000.0 | 208/1/60 | 0.95 | 0.52 | 1.2 | NOTES |
| BC-6A | TCMBM0106KA11N4 | MAIN | 16 | 408,000.0 | 208/1/60 | 1.25 | 0.66 | 1.6 | NOTES |
| BC-6B | TCMBS0104KB11N4 | SUB | 4 | 66,000.0 | 208/1/60 | 0.3 | 0.15 | 0.4 | NOTES |

| UNIT VENTILATOR SCHEDULE | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-----------|---------------|----------------------------|-------------------------|-----|---------|---------|-----------|-----------|-----------|-----------|--------------------------|-----------|--------|------------|-------------------------------|----------|-----|-----------------|----------------------------|-----------------|--|-----------|-------|
| UNIT TAG | LOCATION | CONFIGURATION | TOTAL SUPPLY AIRFLOW (CFM) | MINIMUM OUTSIDE AIRFLOW | | COOLING | | | | | HEATING | | | FILTER | ELECTRICAL | | | | UNIT WEIGHT LBS | UNIT DIMENSION S (LxH, IN) | UNIT DEPTH (IN) | BASIS OF DESIGN | | NOTES |
| | | | | | | COOLING | HEATING | EADB (°F) | EAWB (°F) | LADB (°F) | LAWB (°F) | MIN TOTAL CAPACITY (CFM) | EADB (°F) | | LADB (°F) | REQUIRED TOTAL CAPACITY (MBH) | MERV | MCA | | | | | | |
| UV-1 | ROOM-1 | VERTICAL | 1500 | 425 | 425 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-2 | ROOM-2 | VERTICAL | 1500 | 340 | 340 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-3 | ROOM-3 | VERTICAL | 1500 | 370 | 370 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-4 | ROOM-4 | VERTICAL | 750 | 40 | 40 | 80.0 | 67.0 | 54.76 | 51.26 | 22,300 | 45.0 | 95 | 63.8 | 13 | 3.5 | 15 | 115/1/60 | 320 | 69 x 30 | 21-1/8 | TRANE | VUVE07500Z0N1DJA2B00FFBAOC430A5C524600Y023 | SEE NOTES | |
| UV-5 | ROOM-5 | VERTICAL | 1500 | 410 | 410 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-6 | ROOM-6 | VERTICAL | 1500 | 425 | 425 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-7 | ROOM-7 | VERTICAL | 1500 | 405 | 405 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-8 | ROOM-8 | VERTICAL | 1500 | 410 | 410 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-9 | ROOM-9 | VERTICAL | 1500 | 405 | 405 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-10 | ROOM-10 | VERTICAL | 1500 | 405 | 405 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-11 | ROOM-11 | VERTICAL | 1500 | 410 | 410 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-12 | ROOM-12 | VERTICAL | 1500 | 405 | 405 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-O-12 | ROOM-O-12 | VERTICAL | 750 | 105 | 105 | 80.0 | 67.0 | 54.76 | 51.26 | 22,300 | 45.0 | 95 | 63.8 | 13 | 3.5 | 15 | 115/1/60 | 320 | 69 x 30 | 21-1/8 | TRANE | VUVE07500Z0N1DJA2B00FFBAOC430A5C524600Y023 | SEE NOTES | |
| UV-13 | ROOM-13 | VERTICAL | 1500 | 440 | 440 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-14 | ROOM-14 | VERTICAL | 1500 | 410 | 410 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-15 | ROOM-15 | VERTICAL | 1500 | 445 | 445 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-16 | ROOM-16 | VERTICAL | 1500 | 405 | 405 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-17 | ROOM-17 | VERTICAL | 1500 | 405 | 405 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 55.36 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-18 | ROOM-18 | VERTICAL | 1500 | 405 | 405 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-19 | ROOM-19 | VERTICAL | 1500 | 405 | 405 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-20 | ROOM-20 | VERTICAL | 1500 | 405 | 405 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-21 | ROOM-21 | VERTICAL | 1500 | 405 | 405 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-22 | ROOM-22 | VERTICAL | 1500 | 405 | 405 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-23 | ROOM-23 | VERTICAL | 1500 | 405 | 405 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-24 | ROOM-24 | VERTICAL | 750 | 130 | 130 | 80.0 | 67.0 | 54.76 | 51.26 | 22,300 | 45.0 | 95 | 63.8 | 13 | 3.5 | 15 | 115/1/60 | 320 | 69 x 30 | 21-1/8 | TRANE | VUVE07500Z0N1DJA2B00FFBAOC430A5C524600Y023 | SEE NOTES | |
| UV-25 | ROOM-25 | VERTICAL | 1500 | 440 | 440 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-26 | ROOM-26 | VERTICAL | 1250 | 355 | 355 | 80.0 | 67.0 | 54.76 | 51.26 | 37,100 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 420 | 93 x 30 | 21-1/8 | TRANE | VUVE12500Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-27 | ROOM-27 | VERTICAL | 1250 | 350 | 350 | 80.0 | 67.0 | 54.76 | 51.26 | 37,100 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 420 | 93 x 30 | 21-1/8 | TRANE | VUVE12500Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-28 | ROOM-28 | VERTICAL | 1500 | 365 | 365 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-29 | ROOM-29 | VERTICAL | 1250 | 350 | 350 | 80.0 | 67.0 | 54.76 | 51.26 | 37,100 | 45.0 | 95 | 55.36 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE12500Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-30 | ROOM-30 | VERTICAL | 1500 | 365 | 365 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-31 | ROOM-31 | VERTICAL | 1250 | 355 | 355 | 80.0 | 67.0 | 54.76 | 51.26 | 37,100 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 420 | 93 x 30 | 21-1/8 | TRANE | VUVE12500Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-32 | ROOM-32 | VERTICAL | 1250 | 355 | 355 | 80.0 | 67.0 | 54.76 | 51.26 | 37,100 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 420 | 93 x 30 | 21-1/8 | TRANE | VUVE12500Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-33 | ROOM-33 | VERTICAL | 1250 | 355 | 355 | 80.0 | 67.0 | 54.76 | 51.26 | 37,100 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 420 | 93 x 30 | 21-1/8 | TRANE | VUVE12500Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-34 | ROOM-34 | VERTICAL | 1250 | 350 | 350 | 80.0 | 67.0 | 54.76 | 51.26 | 37,100 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 420 | 93 x 30 | 21-1/8 | TRANE | VUVE12500Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-35 | ROOM-35 | VERTICAL | 1250 | 350 | 350 | 80.0 | 67.0 | 54.76 | 51.26 | 37,100 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 420 | 93 x 30 | 21-1/8 | TRANE | VUVE12500Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-36 | ROOM-36 | VERTICAL | 1500 | 350 | 350 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-37 | ROOM-37 | VERTICAL | 1250 | 295 | 295 | 80.0 | 67.0 | 54.76 | 51.26 | 37,100 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 420 | 93 x 30 | 21-1/8 | TRANE | VUVE12500Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-44-1 | ROOM-44 | VERTICAL | 1500 | 350 | 350 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-44-2 | ROOM-44 | VERTICAL | 1500 | 175 | 175 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-45 | ROOM-45 | VERTICAL | 1500 | 460 | 460 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-47 | ROOM-47 | VERTICAL | 1500 | 410 | 410 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-49 | ROOM-49 | VERTICAL | 1500 | 535 | 535 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-51 | ROOM-51 | VERTICAL | 1500 | 465 | 465 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-61 | ROOM-61 | VERTICAL | 1500 | 455 | 455 | 80.0 | 67.0 | 54.76 | 51.26 | 44,600 | 45.0 | 95 | 63.8 | 13 | 4.38 | 15 | 115/1/60 | 470 | 105 x 30 | 21-1/8 | TRANE | VUVE15000Z0N1DJA2B00FFBAOC430A5C524600Y033 | SEE NOTES | |
| UV-12A | ROOM-12A | VERTICAL | 750 | 35 | 35 | 80.0 | 67.0 | 54.76 | 51.26 | 22,300 | 45.0 | 95 | 63.8 | 13 | 3.5 | 15 | 115/1/60 | 320 | 69 x 30 | 21-1/8 | TRANE | VUVE07500Z0N1DJA2B00FFBAOC430A5C524600Y023 | SEE NOTES | |
| UV-12C | ROOM-12C | VERTICAL | 750 | 15 | 15 | 80.0 | 67.0 | 54.76 | 51.26 | 22,300 | 45.0 | 95 | 63.8 | 13 | 3.5 | 15 | 115/1/60 | 320 | 69 x 30 | 21-1/8 | TRANE | VUVE07500Z0N1DJA2B00FFBAOC430A5C524600Y023 | SEE NOTES | |
| UV-13B | ROOM-13B | VERTICAL | 750 | 70 | 70 | 80.0 | 67.0 | 54.76 | 51.26 | 22,300 | 45.0 | 95 | 63.8 | 13 | 3.5 | 15 | 115/1/60 | 320 | 69 x 30 | 21-1/8 | TRANE | VUVE07500Z0N1DJA2B00FFBAOC430A5C524600Y023 | SEE NOTES | |
| UV-46F-1 | ROOM-46F | VERTICAL | 1500 | 450 | 450 | 80.0 | 67.0 | 54.76 | 51.26 | | | | | | | | | | | | | | | |

0 1/2 1

[illegible]

| | |
|-------------|----------|
| Drawn by | VF/AW |
| Checked by | EF |
| Project No. | 43040 |
| Scale | AS NOTED |
| Date | 03-04-25 |

| | |
|---|--|
| Mechanical & Electrical Engineer: | <p>GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901 PHOTO. NO. : NYT-2300127.00</p> |
| Structural Engineer: | <p>GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901</p> |

UNIVENT REPLACEMENT
AT STONY POINT,
THIELLS, WEST HAV,
ELEMENTARY SCHOOL

SED# 50-02-01-06-01-014-XXX
SED# 50-02-01-06-01-025-XXX
SED# 50-02-01-06-01-024-XXX

WEST HAVENSTRAM
ROCLAND COUNTY
10060

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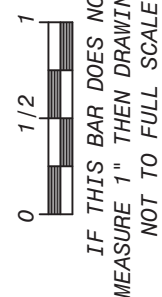
Drawing Title
MECHANICAL
SCHEDULES - 2

Drawing No.
WHES-M-004

| OUTDOOR CONDENSING UNIT SCHEDULE | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------------|----------|---|---------------------------|------|------|-------------|-----------------------------|-----------------------------|--------------|--|-------------------------------|------------|-------|----|-------------------------------|----------------------|----------------------|-------------------------------|----------------------|---------|-----------------|-----------|
| UNIT # | LOCATION | TOTAL CAPACITY COOLING CAPACITY (MBH) | HEATING CAPACITY (MBH) | EER | IEER | REFRIGERANT | REFRIGERANT SAFETY CLASS | REFRIGERANT CHARGE (LBS) | HEATING TYPE | CONDENSER EA DB °F (COOLING/HEATING) | COMPRESSOR TYPE (QUANTITY) | ELECTRICAL | | | | | UNIT WEIGHT (LBS) | BASIS OF DESIGN | | REMARKS | | |
| | | | | | | | | | | | | VOLTS | PHASE | Hz | CIRCUIT 1 MOCP FUSE (A) | CIRCUIT 1 MCA (A) | | CIRCUIT 2 MOCP FUSE (A) | CIRCUIT 2 MCA (A) | | MANUFACTURER | MODEL # |
| ACCU-1A | ROOF | 216,000 | 243,000 | 12.2 | 24.6 | R410A | A1 | 35.250 | HEAT PUMP | 90/11 | SCROLL (2) | 208 | 3 | 60 | 60 | 56 | 45 | 44 | 1,235 | TRANE | TURYE2163BN41AN | SEE NOTES |
| ACCU-1B | ROOF | 216,000 | 243,000 | 12.2 | 24.6 | R410A | A1 | 35.250 | HEAT PUMP | 90/11 | SCROLL (2) | 208 | 3 | 60 | 60 | 56 | 45 | 44 | 1,235 | TRANE | TURYE2163BN41AN | SEE NOTES |
| ACCU-2 | ROOF | 288,000 | 323,000 | 10.9 | 23.1 | R410A | A1 | 47.5 | HEAT PUMP | 90/11 | SCROLL (2) | 208 | 3 | 60 | 60 | 60 | 60 | 60 | 1,360 | TRANE | TURYE2883BN41AN | SEE NOTES |
| ACCU-3A | ROOF | 216,000 | 243,000 | 12.2 | 24.6 | R410A | A1 | 35.250 | HEAT PUMP | 90/11 | SCROLL (2) | 208 | 3 | 60 | 60 | 56 | 45 | 44 | 1,235 | TRANE | TURYE2163BN41AN | SEE NOTES |
| ACCU-3B | ROOF | 216,000 | 243,000 | 12.2 | 24.6 | R410A | A1 | 35.250 | HEAT PUMP | 90/11 | SCROLL (2) | 208 | 3 | 60 | 60 | 56 | 45 | 44 | 1,235 | TRANE | TURYE2163BN41AN | SEE NOTES |
| ACCU-4 | ROOF | 240,000 | 270,000 | 11.7 | 23.9 | R410A | A1 | 35.250 | HEAT PUMP | 90/11 | SCROLL (2) | 208 | 3 | 60 | 60 | 56 | 60 | 56 | 1,244 | TRANE | TURYE2403BN41AN | SEE NOTES |
| ACCU-5 | ROOF | 240,000 | 270,000 | 11.7 | 23.9 | R410A | A1 | 35.250 | HEAT PUMP | 90/11 | SCROLL (2) | 208 | 3 | 60 | 60 | 56 | 60 | 56 | 1,244 | TRANE | TURYE2403BN41AN | SEE NOTES |
| ACCU-6 | ROOF | 288,000 | 323,000 | 10.9 | 23.1 | R410A | A1 | 47.5 | HEAT PUMP | 90/11 | SCROLL (2) | 208 | 3 | 60 | 60 | 60 | 60 | 60 | 1,360 | TRANE | TURYE2883BN41AN | SEE NOTES |
| ACCU-7 | ROOF | 72,000 | 80,000 | 13.5 | 25.3 | R410A | A1 | 14.313 | HEAT PUMP | 90/11 | SCROLL (2) | 208 | 3 | 60 | 35 | 32 | - | - | 512 | TRANE | TUHYE0723AN41AN | SEE NOTES |

OUTDOOR CONDENSING UNIT SCHEDULE NOTES:

1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB)
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB)
3. EFFICIENCY VALUES FOR EER, IEER, COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED & NON-DUCTED INDOOR UNITS.
4. FOR SYSTEMS WITH MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE TWINNING.
5. ADDED FIELD CHARGE LISTED IS IN ADDITION TO FACTORY CHARGE, THIS MUST BE UPDATED BASED UPON FINAL AS-BUILT PIPING LAYOUT.
6. ADD COLD WEATHER LOW AMBIENT KIT.

[illegible]

| INDOOR VRF UNIT SCHEDULE | | | | | | | | | | | | | | | | | | |
|--------------------------|--------------|------------------|----------------------------|------------------|---------|--------------|--------------------------|----------|--------------------|--------------------|------|-----|-----------------|---------------------------|-----------------|-----------------|-----------------|-----------|
| UNIT TAG | LOCATION | CONFIGURATION | TOTAL SUPPLY AIRFLOW (CFM) | CAPACITY (BTU/H) | | REFRIDGERANT | REFRIGERANT SAFTEY CLASS | V/PH/Hz | POWER COOLING (KW) | POWER HEATING (KW) | MCA | MFS | UNIT WEIGHT LBS | UNIT DIMENSIONS (LxH, IN) | UNIT DEPTH (IN) | BASIS OF DESIGN | | NOTES |
| | | | | COOLING | HEATING | | | | | | | | | | | MANUFACTURER | MODEL NUMBER | |
| AHU-46 | ROOM-46 | WALL-MOUNTED | 920 | 24,000 | 27,000 | R410A | A1 | 208/1/60 | 0.07 | 0.07 | 0.63 | 15 | 46 | 46-1/16 x 14-3/8 | 11-5/8 | TRANE | TPKFP024KM142A | SEE NOTES |
| AHU-53 | ROOM-53 | WALL-MOUNTED | 191 | 6,000 | 6,700 | R410A | A1 | 208/1/60 | 0.02 | 0.01 | 0.24 | 15 | 24.5 | 30-7/16 x 11-25/32 | 9-11/32 | TRANE | TPKFP006LM140A | SEE NOTES |
| AHU-53A | ROOM-53A | WALL-MOUNTED | 191 | 6,000 | 6,700 | R410A | A1 | 208/1/60 | 0.02 | 0.01 | 0.24 | 15 | 24.5 | 30-7/16 x 11-25/32 | 9-11/32 | TRANE | TPKFP006LM140A | SEE NOTES |
| AHU-46G | ROOM-46G | WALL-MOUNTED | 920 | 24,000 | 27,000 | R410A | A1 | 208/1/60 | 0.07 | 0.07 | 0.63 | 15 | 46 | 46-1/16 x 14-3/8 | 11-5/8 | TRANE | TPKFP024KM142A | SEE NOTES |
| AHU-46H | ROOM-46H | WALL-MOUNTED | 191 | 6,000 | 6,700 | R410A | A1 | 208/1/60 | 0.02 | 0.01 | 0.24 | 15 | 24.5 | 30-7/16 x 11-25/32 | 9-11/32 | TRANE | TPKFP006LM140A | SEE NOTES |
| AHU-48 | ROOM-49 | WALL-MOUNTED | 920 | 24,000 | 27,000 | R410A | A1 | 208/1/60 | 0.07 | 0.07 | 0.63 | 15 | 46 | 46-1/16 x 14-3/8 | 11-5/8 | TRANE | TPKFP024KM142A | SEE NOTES |
| AHU-52 | ROOM-52 | WALL-MOUNTED | 920 | 24,000 | 27,000 | R410A | A1 | 208/1/60 | 0.07 | 0.07 | 0.63 | 15 | 46 | 46-1/16 x 14-3/8 | 11-5/8 | TRANE | TPKFP024KM142A | SEE NOTES |
| AHU-52B | ROOM-52B | WALL-MOUNTED | 920 | 24,000 | 27,000 | R410A | A1 | 208/1/60 | 0.07 | 0.07 | 0.63 | 15 | 46 | 46-1/16 x 14-3/8 | 11-5/8 | TRANE | TPKFP024KM142A | SEE NOTES |
| AHU-56 | ROOM-56 | WALL-MOUNTED | 920 | 24,000 | 27,000 | R410A | A1 | 208/1/60 | 0.07 | 0.07 | 0.63 | 15 | 46 | 46-1/16 x 14-3/8 | 11-5/8 | TRANE | TPKFP024KM142A | SEE NOTES |
| AHU-57 | ROOM-57 | WALL-MOUNTED | 920 | 24,000 | 27,000 | R410A | A1 | 208/1/60 | 0.07 | 0.07 | 0.63 | 15 | 46 | 46-1/16 x 14-3/8 | 11-5/8 | TRANE | TPKFP024KM142A | SEE NOTES |
| AHU-58 | ROOM-58 | WALL-MOUNTED | 920 | 24,000 | 27,000 | R410A | A1 | 208/1/60 | 0.07 | 0.07 | 0.63 | 15 | 46 | 46-1/16 x 14-3/8 | 11-5/8 | TRANE | TPKFP024KM142A | SEE NOTES |
| AHU-59 | ROOM-59 | WALL-MOUNTED | 920 | 24,000 | 27,000 | R410A | A1 | 208/1/60 | 0.07 | 0.07 | 0.63 | 15 | 46 | 46-1/16 x 14-3/8 | 11-5/8 | TRANE | TPKFP024KM142A | SEE NOTES |
| AHU-60 | ROOM-60 | WALL-MOUNTED | 920 | 24,000 | 27,000 | R410A | A1 | 208/1/60 | 0.07 | 0.07 | 0.63 | 15 | 46 | 46-1/16 x 14-3/8 | 11-5/8 | TRANE | TPKFP024KM142A | SEE NOTES |
| AHU-61 | ROOM-61 | WALL-MOUNTED | 191 | 6,000 | 6,700 | R410A | A1 | 208/1/60 | 0.02 | 0.01 | 0.24 | 15 | 24.5 | 30-7/16 x 11-25/32 | 9-11/32 | TRANE | TPKFP006LM140A | SEE NOTES |
| CC-1A | ROOM-1A | CEILING-CASSETTE | 459 | 6,000 | 6,700 | R410A | A1 | 208/1/60 | 0.02 | 0.02 | 0.24 | 15 | 46 | 33-3/32 x 33-3/32 | 10-3/16 | TRANE | TPLFYP006EM140B | SEE NOTES |
| CC-38 | ROOM-38 | CEILING-CASSETTE | 459 | 6,000 | 6,700 | R410A | A1 | 208/1/60 | 0.02 | 0.02 | 0.24 | 15 | 46 | 33-3/32 x 33-3/32 | 10-3/16 | TRANE | TPLFYP006EM140B | SEE NOTES |
| CC-39 | ROOM-39 | CEILING-CASSETTE | 459 | 6,000 | 6,700 | R410A | A1 | 208/1/60 | 0.02 | 0.02 | 0.24 | 15 | 46 | 33-3/32 x 33-3/32 | 10-3/16 | TRANE | TPLFYP006EM140B | SEE NOTES |
| CC-42-1 | ROOM-42 | CEILING-CASSETTE | 565 | 12,000 | 13,500 | R410A | A1 | 208/1/60 | 0.03 | 0.02 | 0.39 | 15 | 46 | 33-3/32 x 33-3/32 | 10-3/16 | TRANE | TPLFYP012EM140B | SEE NOTES |
| CC-42-2 | ROOM-42 | CEILING-CASSETTE | 565 | 12,000 | 13,500 | R410A | A1 | 208/1/60 | 0.03 | 0.02 | 0.39 | 15 | 46 | 33-3/32 x 33-3/32 | 10-3/16 | TRANE | TPLFYP012EM140B | SEE NOTES |
| CC-43-1 | ROOM-43 | CEILING-CASSETTE | 565 | 12,000 | 13,500 | R410A | A1 | 208/1/60 | 0.03 | 0.02 | 0.39 | 15 | 46 | 33-3/32 x 33-3/32 | 10-3/16 | TRANE | TPLFYP012EM140B | SEE NOTES |
| CC-43-2 | ROOM-43 | CEILING-CASSETTE | 565 | 12,000 | 13,500 | R410A | A1 | 208/1/60 | 0.03 | 0.02 | 0.39 | 15 | 46 | 33-3/32 x 33-3/32 | 10-3/16 | TRANE | TPLFYP012EM140B | SEE NOTES |
| CC-50 | ROOM-50 | CEILING-CASSETTE | 459 | 6,000 | 6,700 | R410A | A1 | 208/1/60 | 0.02 | 0.02 | 0.24 | 15 | 46 | 33-3/32 x 33-3/32 | 10-3/16 | TRANE | TPLFYP006EM140B | SEE NOTES |
| CC-55 | ROOM-50 | CEILING-CASSETTE | 459 | 6,000 | 6,700 | R410A | A1 | 208/1/60 | 0.02 | 0.02 | 0.24 | 15 | 46 | 33-3/32 x 33-3/32 | 10-3/16 | TRANE | TPLFYP006EM140B | SEE NOTES |
| CC-61A | ROOM-50 | CEILING-CASSETTE | 459 | 6,000 | 6,700 | R410A | A1 | 208/1/60 | 0.02 | 0.02 | 0.24 | 15 | 46 | 33-3/32 x 33-3/32 | 10-3/16 | TRANE | TPLFYP006EM140B | SEE NOTES |
| CC-61B | ROOM-50 | CEILING-CASSETTE | 459 | 6,000 | 6,700 | R410A | A1 | 208/1/60 | 0.02 | 0.02 | 0.24 | 15 | 46 | 33-3/32 x 33-3/32 | 10-3/16 | TRANE | TPLFYP006EM140B | SEE NOTES |
| AHU-54E | ROOM-54E | WALL-MOUNTED | 191 | 6,000 | 6,700 | R410A | A1 | 208/1/60 | 0.02 | 0.01 | 0.24 | 15 | 24.5 | 30-7/16 x 11-25/32 | 9-11/32 | TRANE | TPKFP006LM140A | SEE NOTES |
| AHU-55E | ROOM-55E | WALL-MOUNTED | 191 | 6,000 | 6,700 | R410A | A1 | 208/1/60 | 0.02 | 0.01 | 0.24 | 15 | 24.5 | 30-7/16 x 11-25/32 | 9-11/32 | TRANE | TPKFP006LM140A | SEE NOTES |
| OAU-1 | GYM STOR. | OUTSIDE AIR UNIT | 450 | 36,000 | 21,000 | R410A | A1 | 208/1/60 | - | - | 3.3 | 15 | 109 | 35-7/16 x 47-1/16 | 15 | TRANE | TPEFYP036OA140A | SEE NOTES |
| OAU-2 | ELEC. CLOSET | OUTSIDE AIR UNIT | 450 | 36,000 | 21,000 | R410A | A1 | 208/1/60 | - | - | 3.3 | 15 | 109 | 35-7/16 x 47-1/16 | 15 | TRANE | TPEFYP036OA140A | SEE NOTES |

INDOOR VRF UNIT SCHEDULE NOTES:

1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB)
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB)
3. SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY, AND OTHER FACTORS ASSOCIATED WITH CORRECTED CAPACITIES.
4. SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION
5. FULL DEMAND CORRECTED CAPACITY INCLUDES DE-RATE ASSOCIATED WITH INDOOR VS. OUTDOOR CONNECTED CAPACITY INDICATED ON OUTDOOR UNIT SCHEDULE FOR ASSOCIATED SYSTEM. PARTIAL CORRECTED CAPACITY ASSUMES SUFFICIENT DIVERSITY EXISTS SUCH THAT THE CONNECTED CAPACITY DE-RATE DOES NOT APPLY. IT IS THE DESIGNER'S RESPONSIBILITY TO ENSURE "DIAMOND SYSTEM BUILDER" IS SET IN THE APPROPRIATE OUTPUT CAPACITY SETTING (FULL DEMAND/PARTIAL DEMAND) PRIOR TO GENERATING THIS SCHEDULE.
6. IT IS RECOMMENDED TO ALWAYS BASE HEATING CORRECTED CAPACITY ON FULL DEMAND.
7. PROVIDE MULTI-FUNCTION CASEMENT (PAC-SJ41TM-E) WITH HIGH EFFICIENCY FILTER ELEMENT (PAC-SH59KF-E).
8. MECHANICAL CONTRACTOR TO PROVIDE A FACTORY DISCONNECT. INSTALLATION BY ELECTRICAL CONTRACTOR.
9. PROVIDE UNIT MOUNTED DISCONNECT SWITCH.

| OUTDOOR AIR UNIT SCHEDULE | | | | | | | | | | | | | | | |
|---------------------------|----------------|----------------------------|------------------|---------|--------------|--------------------------|----------|-----|-----|-----------------|---------------------------|-----------------|-----------------|-----------------|-----------|
| UNIT TAG | LOCATION | TOTAL SUPPLY AIRFLOW (CFM) | CAPACITY (BTU/H) | | REFRIDGERANT | REFRIGERANT SAFETY CLASS | V/PH/Hz | MCA | MFS | UNIT WEIGHT LBS | UNIT DIMENSIONS (LxH, IN) | UNIT DEPTH (IN) | BASIS OF DESIGN | | NOTES |
| | | | COOLING | HEATING | | | | | | | | | MANUFACTURER | MODEL NUMBER | |
| OAU-1 | PE STORAGE | 400 | 36,000 | 21,000 | R410A | A1 | 208/1/60 | 3.3 | 15 | 109 | 47-1/16 x 35-7/16 | 15 | TRANE | TPEFYP036OA140A | SEE NOTES |
| OAU-2 | 2ND FL STORAGE | 400 | 36,000 | 21,000 | R410A | A1 | 208/1/60 | 3.3 | 15 | 109 | 47-1/16 x 35-7/16 | 15 | TRANE | TPEFYP036OA140A | SEE NOTES |

OUTDOOR AIR UNIT SCHEDULE NOTES:

1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB)
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB)
3. SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY, AND OTHER FACTORS ASSOCIATED WITH CORRECTED CAPACITIES.
4. SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES.
5. FULL DEMAND CORRECTED CAPACITY INCLUDES DE-RATE ASSOCIATED WITH INDOOR VS. OUTDOOR CONNECTED CAPACITY INDICATED ON OUTDOOR UNIT SCHEDULE FOR ASSOCIATED SYSTEM. PARTIAL CORRECTED CAPACITY ASSUMES SUFFICIENT DIVERSITY EXISTS SUCH THAT THE CONNECTED CAPACITY DE-RATE DOES NOT APPLY. IT IS THE DESIGNER'S RESPONSIBILITY TO ENSURE "DIAMOND SYSTEM BUILDER" IS SET IN THE APPROPRIATE OUTPUT CAPACITY SETTING (FULL DEMAND/PARTIAL DEMAND) PRIOR TO GENERATING THIS SCHEDULE.
6. IT IS RECOMMENDED TO ALWAYS BASE HEATING CORRECTED CAPACITY ON FULL DEMAND.
7. MECHANICAL CONTRACTOR TO PROVIDE A FACTORY DISCONNECT. INSTALLATION BY ELECTRICAL CONTRACTOR.

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| Checked by | EF |
| Project No. | 43040 |
| Scale | AS NOTED |
| Date | 03-04-25 |

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|---|---|
| Mechanical & Electrical Engineer: | GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901 PHON. NO.: NYT-5300127.00 |
| Structural Engineer: | GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901 |

UNIVENT REPLACEMENT
AT STONY POINT,
THIELLS, WEST HAV,
ELEMENTARY SCHOOL

SED# 50-02-01-06-01-014-XXX
SED# 50-02-01-06-01-025-XXX
SED# 50-02-01-06-01-024-XXX

WEST HAVENSTRAM
ROCLAND COUNTY
10060

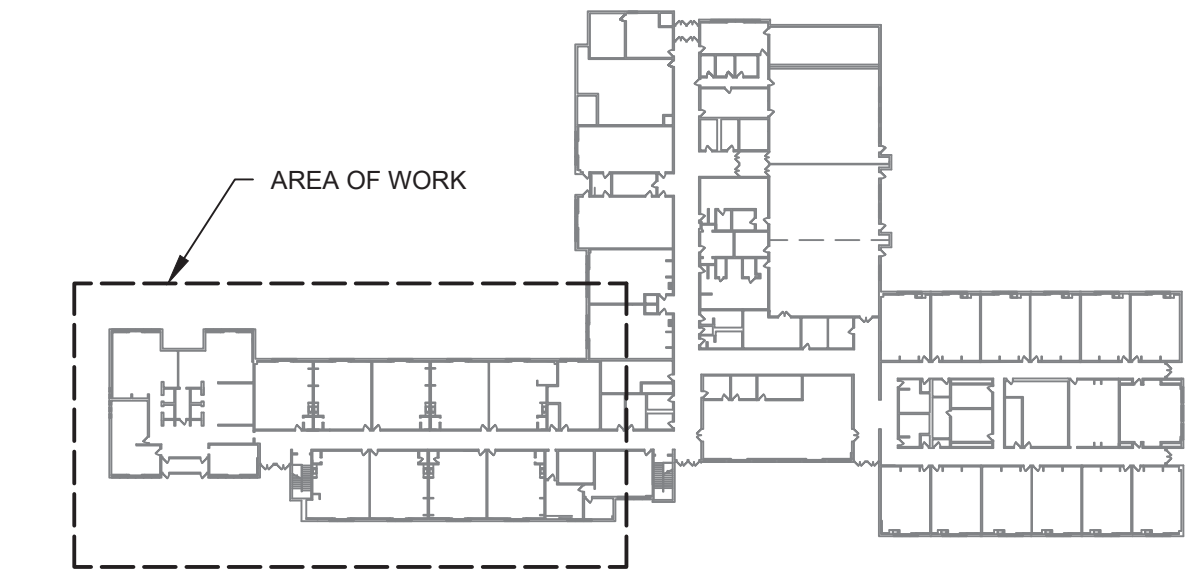
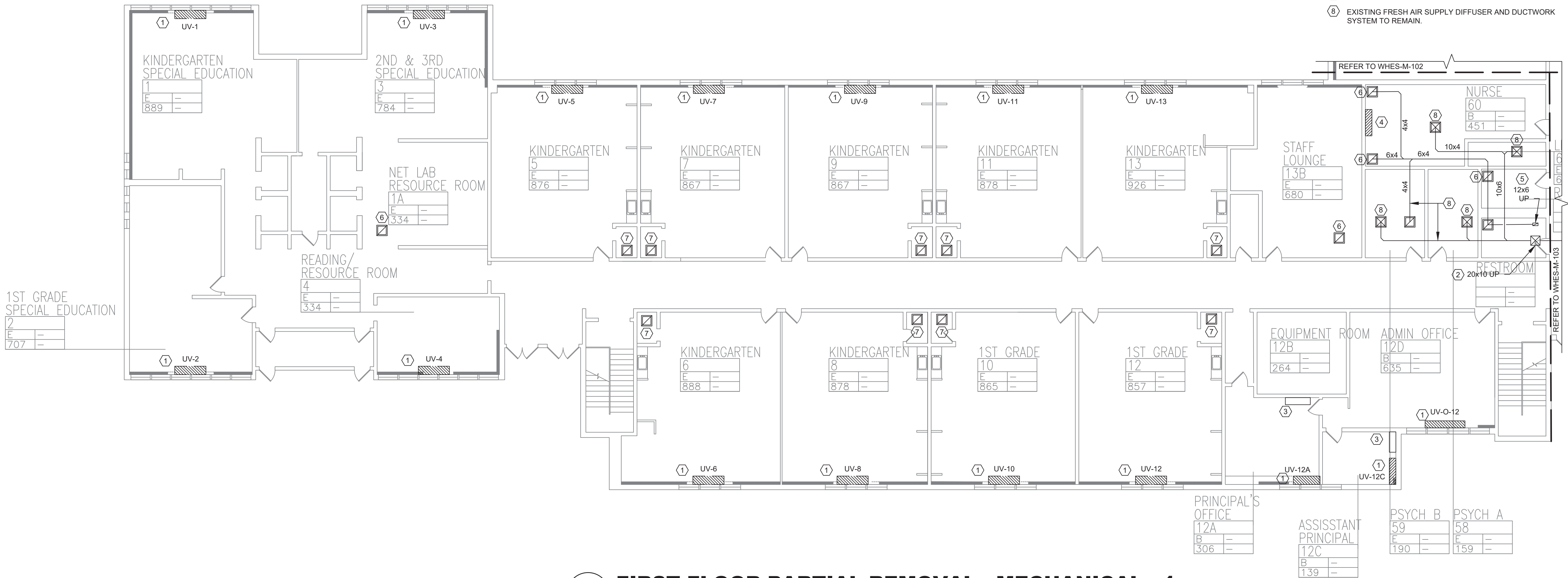
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140 Park Avenue New City, NY 10956 Tel: 847-708-9200
www.hsallc.com

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| Drawing Title MECHANICAL SCHEDULES - 3 | Drawing No. WHES-M-005 |
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KEY PLAN



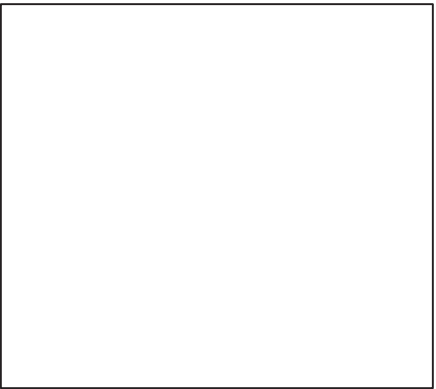
KEYED NOTES:

- 1 DISCONNECT, REMOVE UNIT VENTILATOR, CUT AND CAP HOT WATER SUPPLY AND RETURN PIPING TEMPORARILY FOR REUSE. EXISTING OUTSIDE LOUVER AND SLEEVE TO REMAIN. DISCONNECT ASSOCIATED THERMOSTAT. SEE 2/M-501.
- 2 EXISTING FRESH AIR DUCT UP TO SECOND FLOOR H.V. UNIT TO REMAIN.
- 3 EXISTING WALL HUNG UNIT TO REMAIN.
- 4 DISCONNECT, REMOVE WALL HUNG UNIT, AND ASSOCIATED PIPING AND THERMOSTAT.
- 5 EXISTING EXHAUST TO UP TO ROOF FAN TO REMAIN.
- 6 EXISTING GRILL AND DUCTWORK SYSTEM TO REMAIN.
- 7 EXISTING BATHROOM EXHAUST GRILL TO REMAIN.
- 8 EXISTING FRESH AIR SUPPLY DIFFUSER AND DUCTWORK SYSTEM TO REMAIN.

0 1/2 1
IF THIS BAR DOES NOT
MEASURE 1" THEN DRAWING IS
NOT TO FULL SCALE

1 FIRST FLOOR PARTIAL REMOVAL - MECHANICAL - 1
SCALE: 3/32" = 1'-0"

| No. | Date | Revisions |
|-----|----------|-------------------|
| 1 | 03-04-25 | BIDDING DOCUMENTS |
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| Checked by | EF |
| Project No. | 43040 |
| Scale | AS NOTED |
| Date | 03-04-25 |

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| Mechanical Engineer: | GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 200 ROCKY HILL, CT 06067 PROJ. NO. : MNY-5000127-00 |
| Structural Engineer: | GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 200 ROCKY HILL, CT 06067 |

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|---|
| UNIVENT REPLACEMENT AT STONY POINT, THIELS, WEST HAV ELEMENTARY SCHOOL |
| SED# 50-02-01-06-0-014-XXX SED# 50-02-01-06-0-025-XXX SED# 50-02-01-06-0-024-XXX |
| 100 PARK AVENUE, NEW YORK, NY 10065 MICHAEL SHILALE ARCHITECTS, LLP |

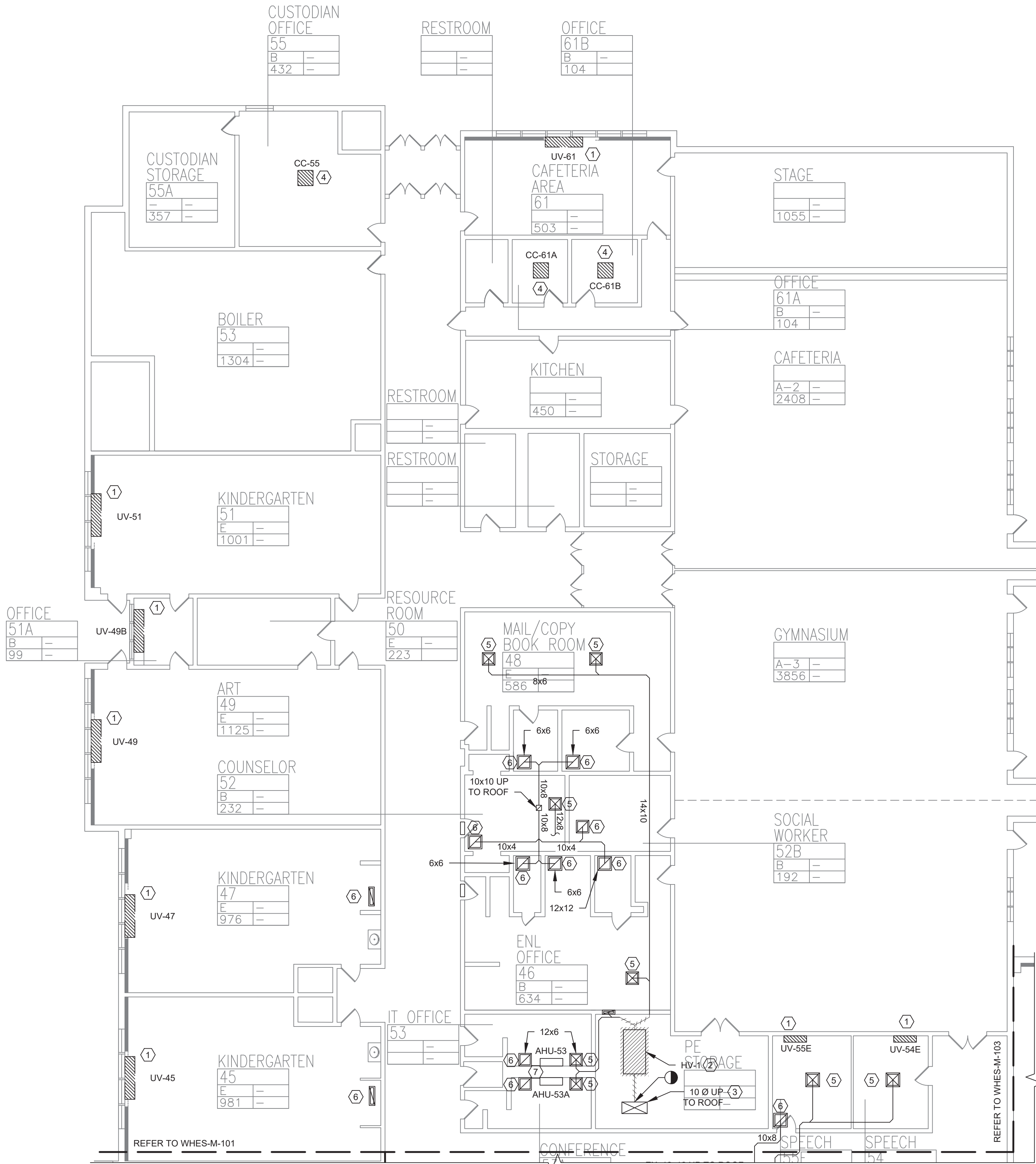


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Drawing Title
**FIRST FLOOR PARTIAL
REMOVAL -
MECHANICAL - 1**

Drawing No.
WHES-M-061

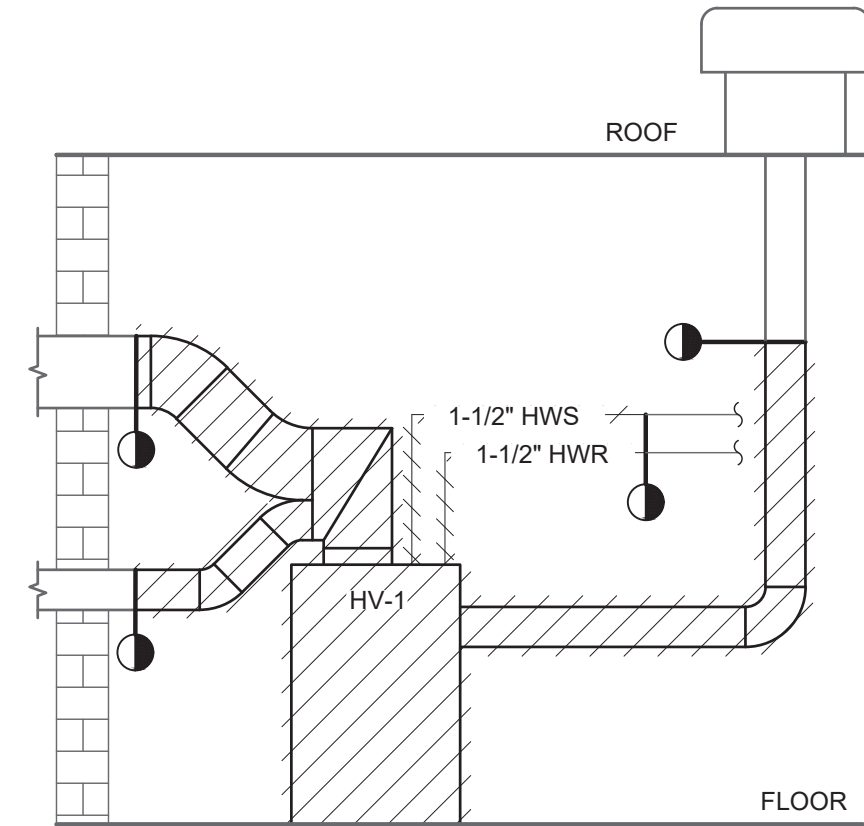
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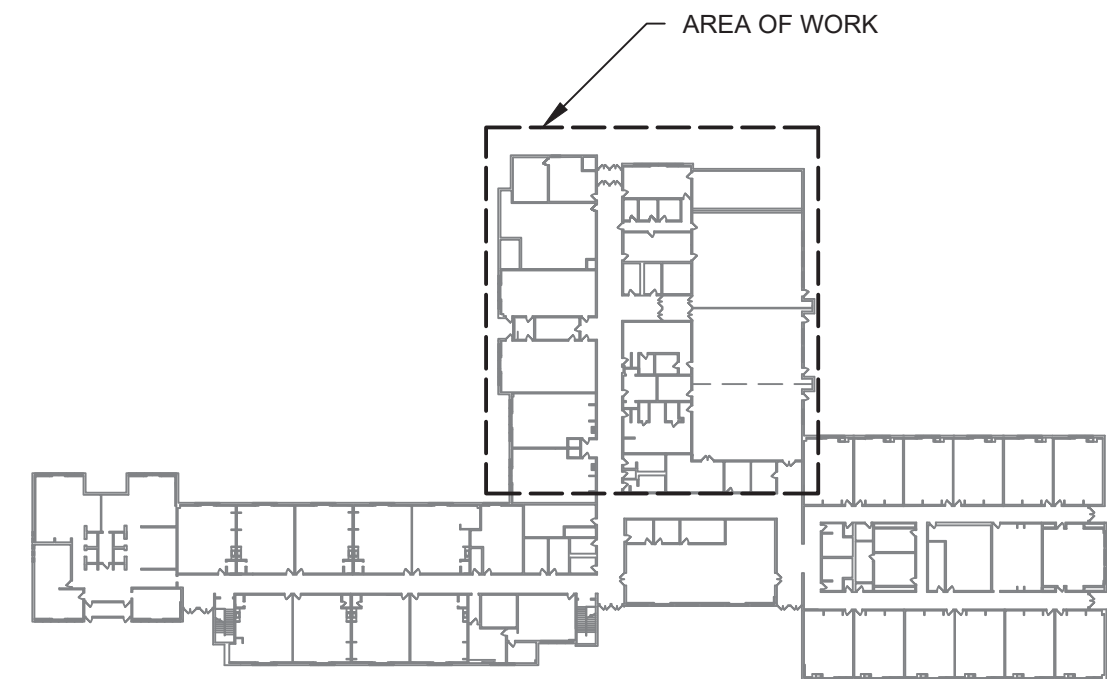
1 FIRST FLOOR PARTIAL REMOVAL - MECHANICAL - 2
SCALE: 3/32" = 1'-0"

KEYED NOTES:

- 1 DISCONNECT, REMOVE UNIT VENTILATOR, CUT AND CAP HOT WATER SUPPLY AND RETURN TEMPORARILY FOR REUSE, EXISTING OUTSIDE LOUVER AND SLEEVE TO REMAIN, DISCONNECT ASSOCIATED THERMOSTAT. SEE DETAIL 2/WHES-M-501
- 2 DISCONNECT AND REMOVE EXISTING HEATING VENTILATOR BLOWER, ASSOCIATED DUCTWORK AND HW COILS. CAP HWS AND HWR, SEE DETAIL 2/WHES-M-062.
- 3 EXISTING FRESH AIR DUCT UP TO ROOF TO REMAIN.
- 4 DISCONNECT, REMOVE EXISTING CEILING CASSETTE, REMOVE ALL PIPING AND CONDENSING UNIT ON ROOF, PATCH AS REQUIRED.
- 5 EXISTING SUPPLY DIFFUSER AND DUCTWORK SYSTEM TO REMAIN.
- 6 EXISTING ROOM EXHAUST TO REMAIN AND DUCTWORK SYSTEM TO REMAIN.
- 7 EXISTING WALL HUNG UNITS TO REMAIN.



2 HV-1 REMOVAL DETAIL
SCALE: NOT TO SCALE



KEY PLAN



PLAN NORTH

| No. | Date | Revisions |
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| 1 | 03-04-25 | BIDDING DOCUMENTS |

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| Project No. | 43040 |
| Scale | AS NOTED |
| Date | 03-04-25 |

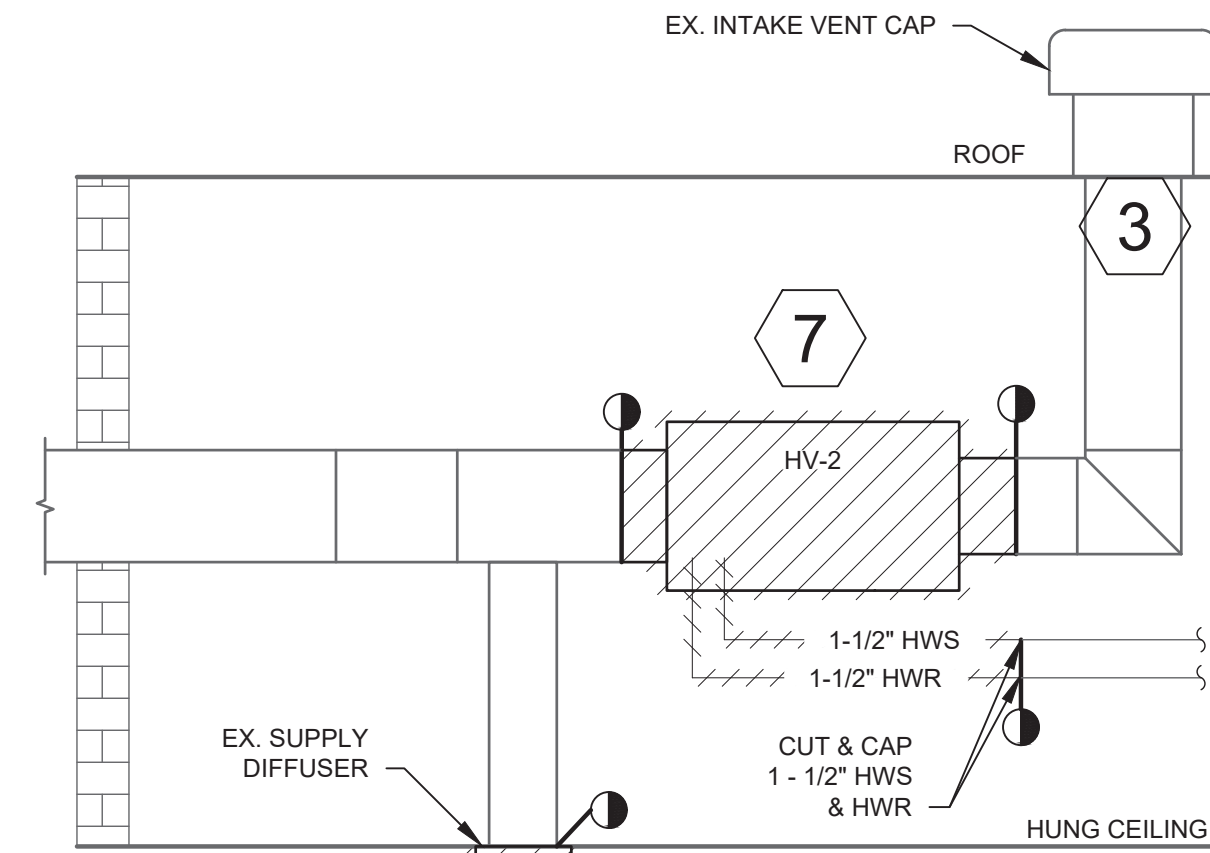
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|----------------------|--|
| Mechanical Engineer: | GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUFFERN, NY 10901 PROJ. NO. : MNY-5000127.00 |
| Structural Engineer: | GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUFFERN, NY 10901 |

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| UNIVENT REPLACEMENT AT STONY POINT, THIELS, WEST HAV ELEMENTARY SCHOOL |
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| NY REG. NO. 00000000000000000000 HARRISBURG, NY 10093 |

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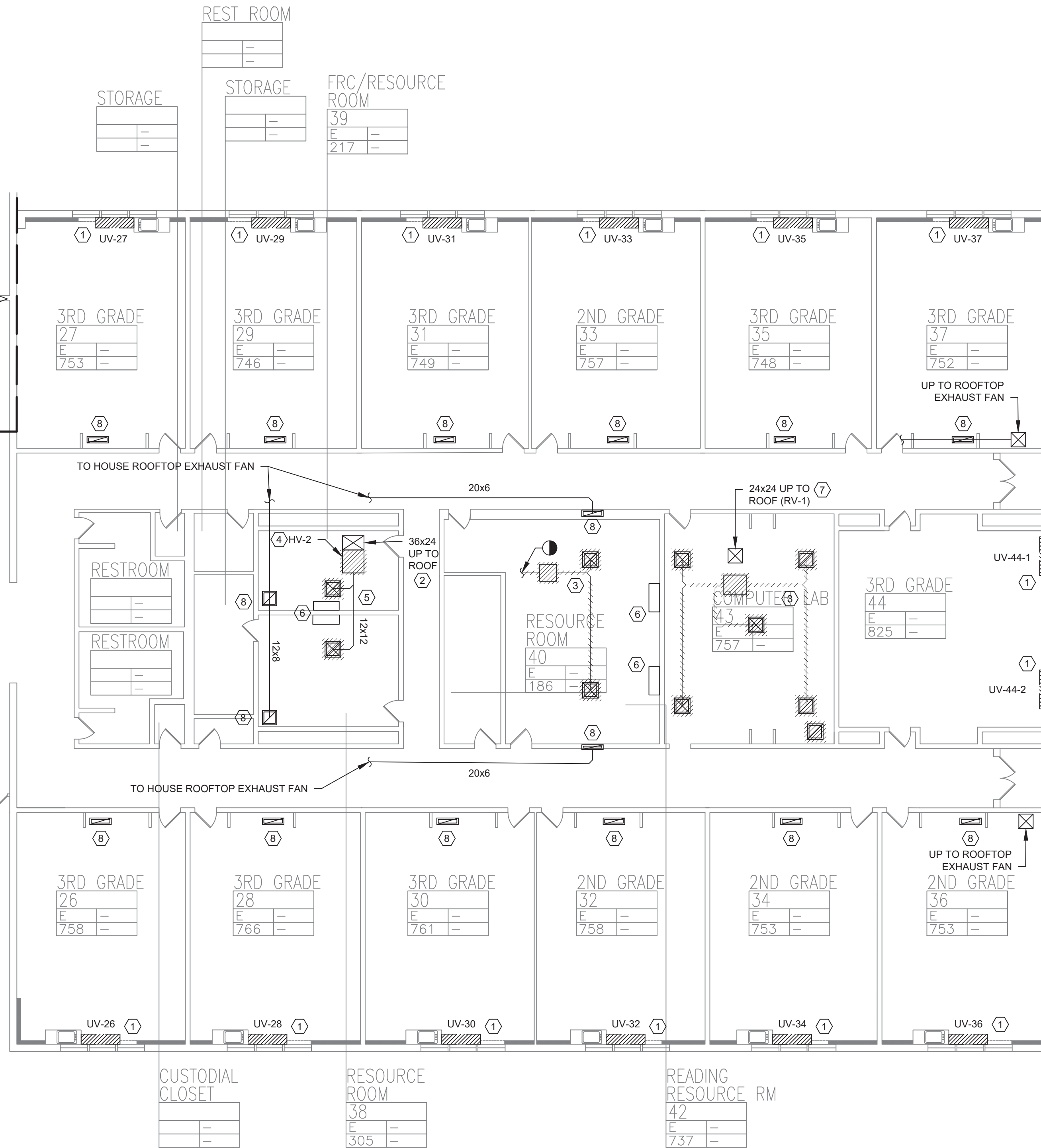
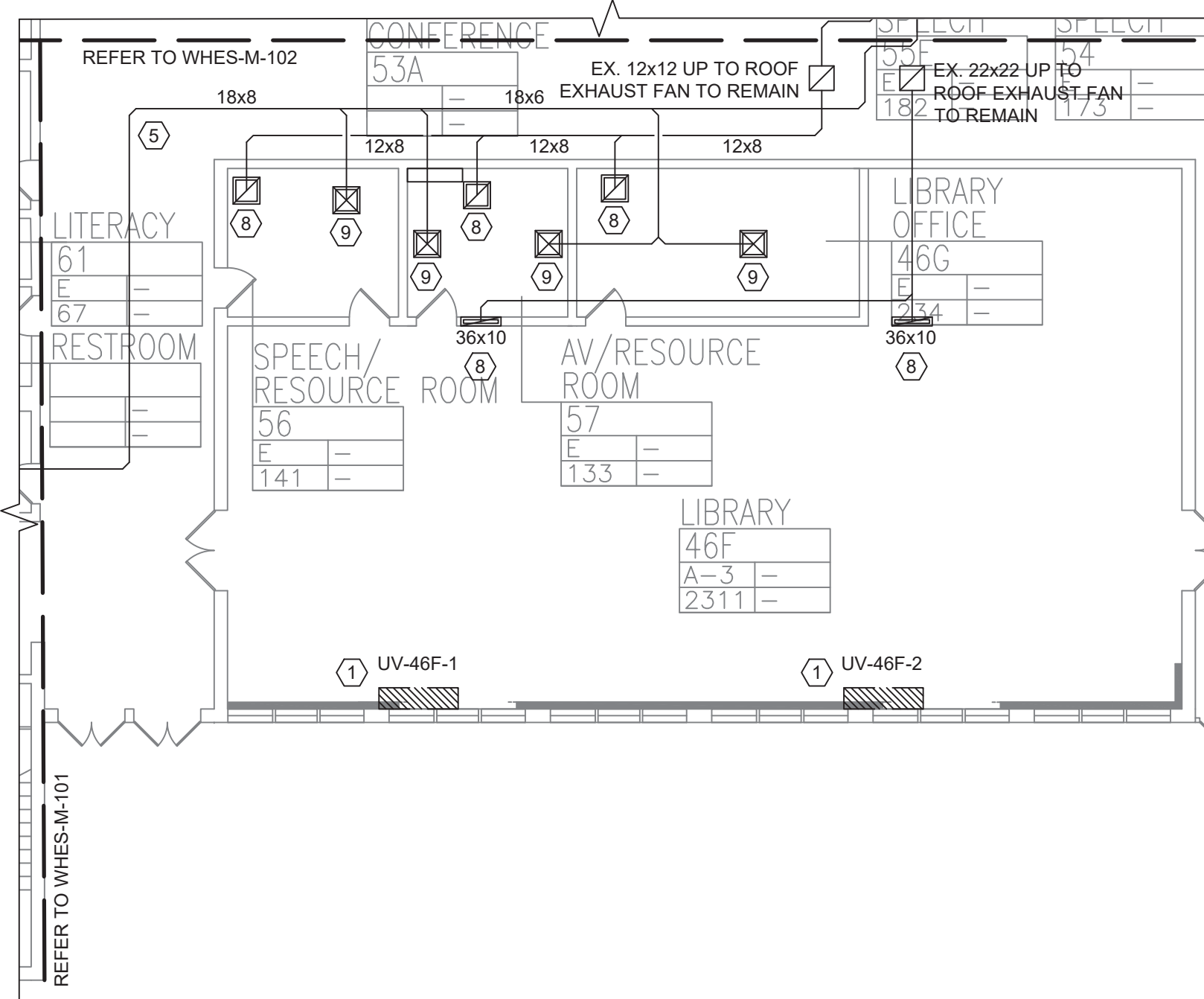
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| Drawing Title FIRST FLOOR PARTIAL REMOVAL - MECHANICAL - 2 |
| Drawing No. WHES-M-062 |

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2 HV-2 REMOVAL DETAIL

SCALE: NOT TO SCALE



1 FIRST FLOOR PARTIAL REMOVAL - MECHANICAL - 3

SCALE: 3/32" = 1'-0"

KEYED NOTES:

- 1 DISCONNECT, REMOVE UNIT VENTILATOR, BUT AND CAP HOT WATER SUPPLY AND RETURN TEMPORARILY FOR REUSE. EXISTING OUTSIDE LOUVER AND SLEEVE TO REMAIN. DISCONNECT ASSOCIATED THERMOSTAT.TYP. 16. SEE DETAIL 2 /WHES-M-501
- 2 EXISTING FRESH AIR DUCT UP TO SECOND FLOOR HEATING VENTILATION UNIT TO REMAIN.
- 3 REMOVE SUPPLY AND EXHAUST DUCT.
- 4 DISCONNECT AND REMOVE H.V. BLOWER ABOVE HUNG CEILING. SEE DETAIL 2/WHES-M-063.
- 5 EXISTING FRESH AIR DUCT TO REMAIN.
- 6 EXISTING WALL HUNG UNITS TO REMAIN.
- 7 EXISTING FRESH AIR INTAKE UP THROUGH ROOF TO REMAIN.
- 8 EXISTING ROOM EXHAUST AND SYSTEM TO REMAIN.
- 9 EXISTING SUPPLY DIFFUSER AND SYSTEMS TO REMAIN.

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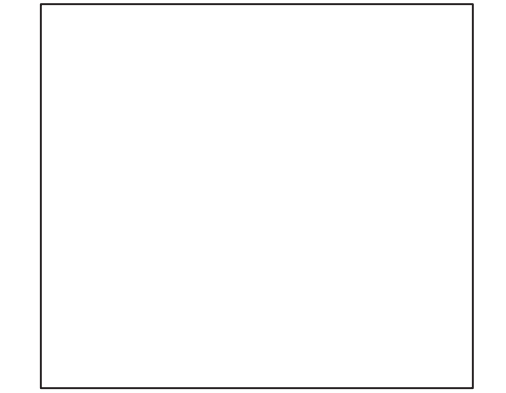


KEY PLAN



PLAN NORTH

| No. | Date | Revisions |
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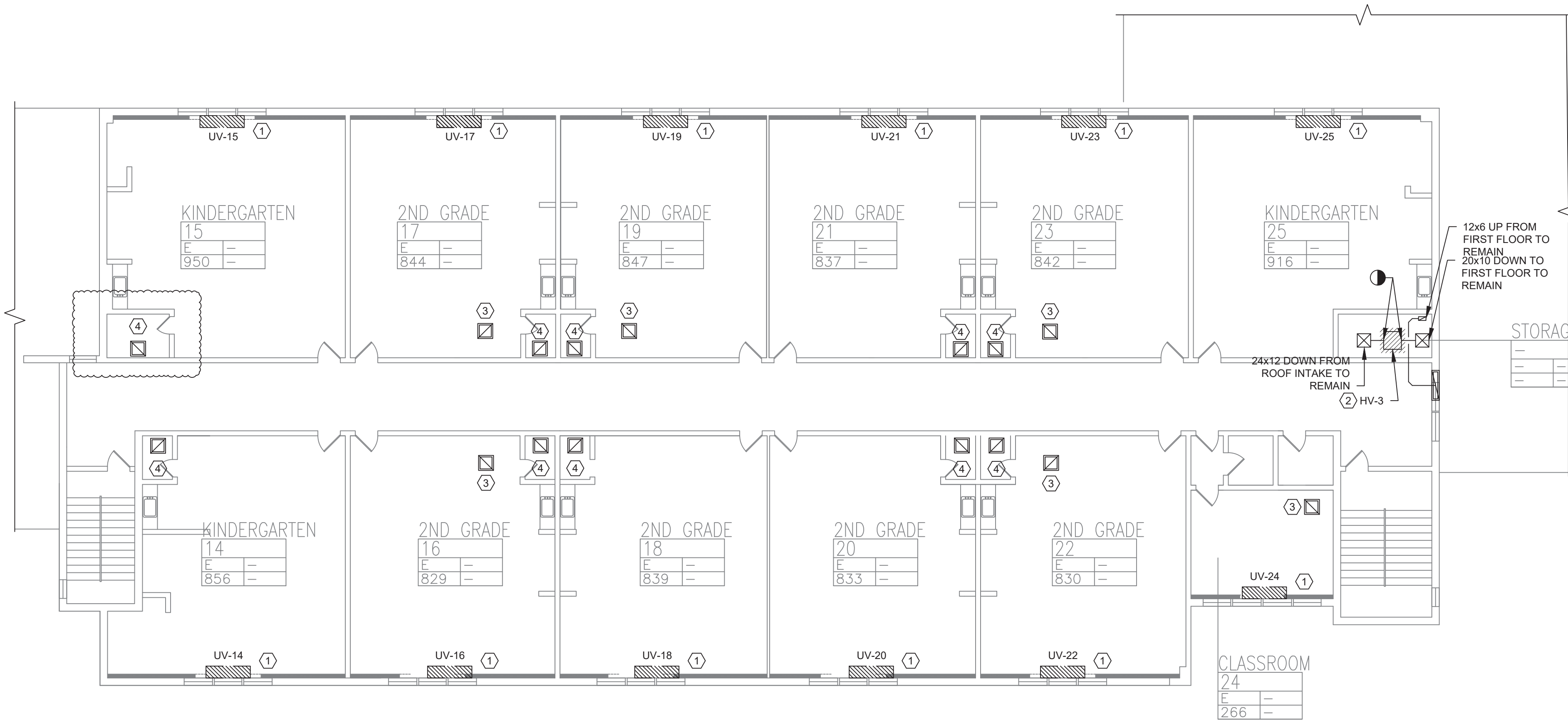
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| GREENMAN PEDERSEN, INC. 2 EXECUTIVE BOULEVARD SUITE 200 ROCKY HILL, CT 06067 TEL: 860-514-1100 FAX: 860-514-1101 WWW.GREENMANPEDERSEN.COM | Mechanical Structural Engineer |
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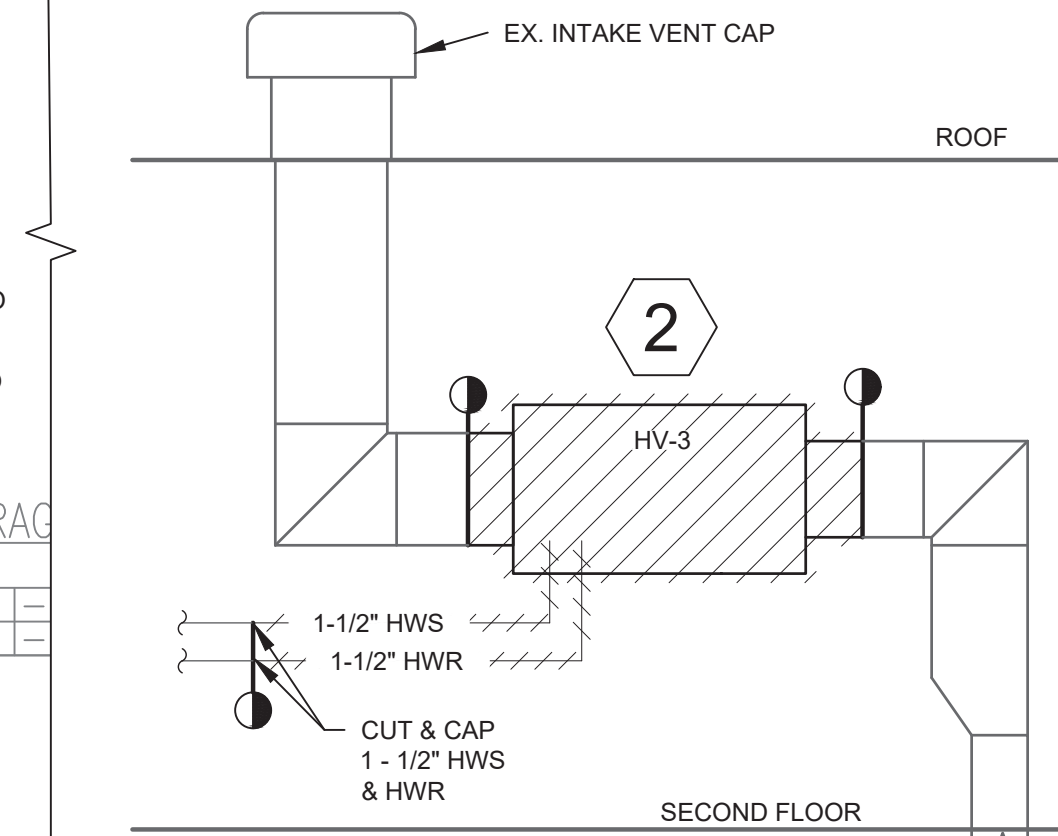
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|---|------------------------|

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| MSA MICHAEL SHILALE ARCHITECTS, LLP 140 Park Avenue New York, NY 10065 Tel: 845-708-9200 www.shilale.com | Mechanical Structural Engineer |
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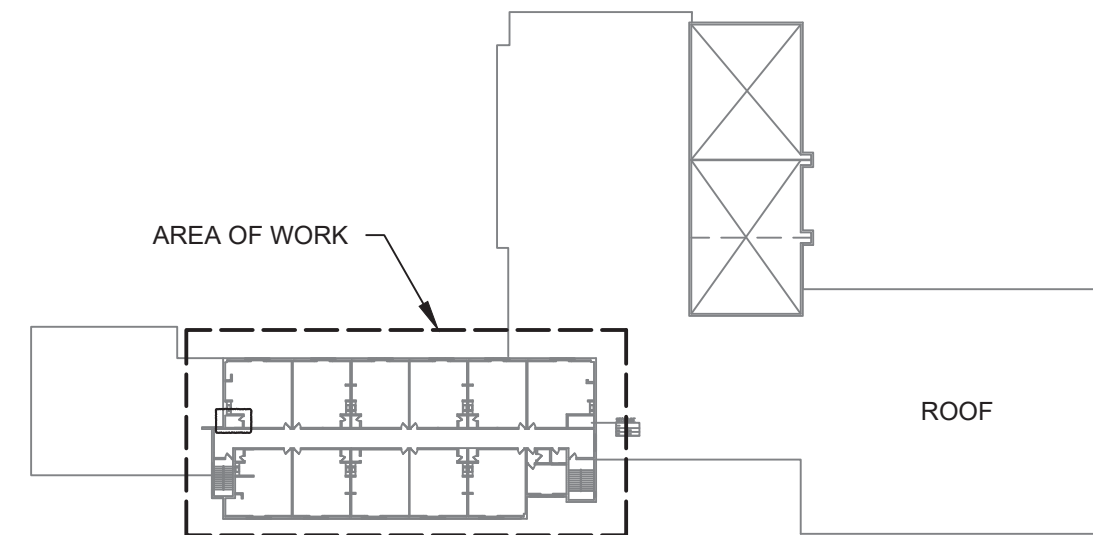
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| Drawing Title FIRST FLOOR PARTIAL REMOVAL - MECHANICAL - 3 | Drawing No. WHES-M-063 |
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1 SECOND FLOOR PARTIAL REMOVAL - MECHANICAL - 1
SCALE: 3/32" = 1'-0"



2 HV-3 REMOVAL DETAIL
SCALE: NOT TO SCALE



KEY PLAN

KEYED NOTES:

- 1 DISCONNECT, REMOVE UNIT VENTILATOR, BUT AND CAP HOT WATER SUPPLY AND RETURN TEMPORARILY FOR REUSE. EXISTING OUTSIDE LOUVER AND SLEEVE TO REMAIN. DISCONNECT ASSOCIATED THERMOSTAT. TYPICAL 5 SEE DETAIL 2/WHES-M-501
- 2 EXISTING HEATING VENTILATOR. UNIT TO BE REMOVED. SEE DETAIL 2/WHES-M-064.
- 3 EXISTING EXHAUST GRILLE IN CLASSROOM TO REMAIN.
- 4 EXISTING EXHAUST GRILLE IN CLOSET TO REMAIN.

0 1/2 1
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MEASURE 1" THEN DRAWING IS
NOT TO FULL SCALE

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| 1 | 03-04-25 | BIDDING DOCUMENTS |

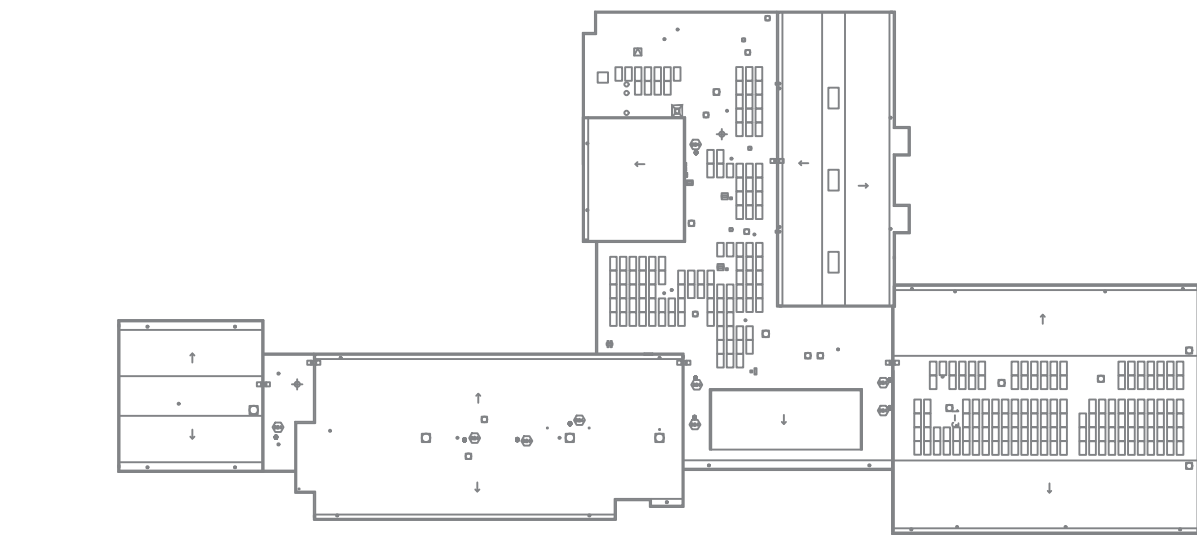
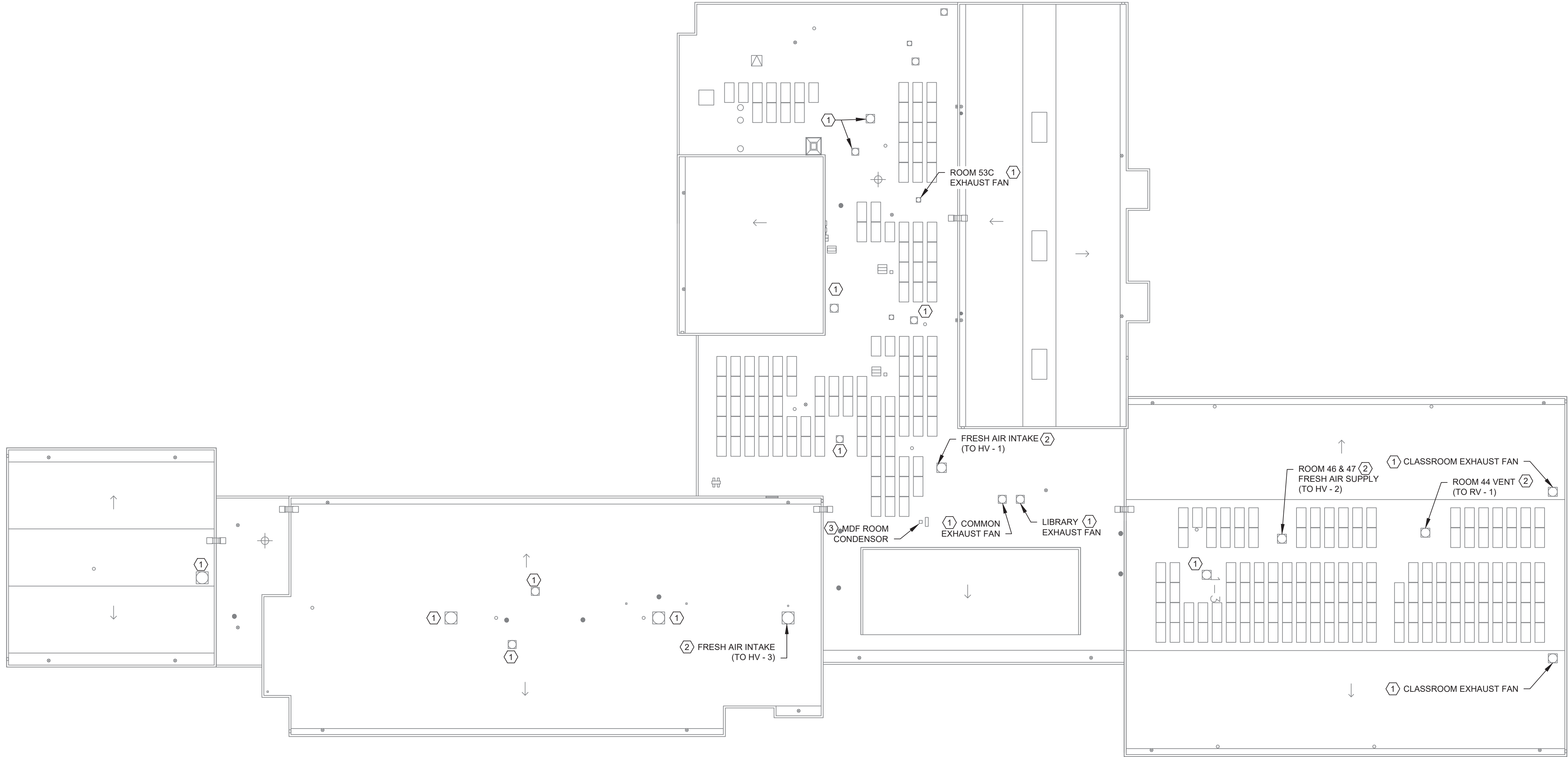
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| GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 200 ROCKY HILL, CT 06067 TEL: 860-514-1100 FAX: 860-514-1101 WWW.GP-ARCH.COM | GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 200 ROCKY HILL, CT 06067 TEL: 860-514-1100 FAX: 860-514-1101 WWW.GP-ARCH.COM |
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| UNIVENT REPLACEMENT AT STONY POINT, THIELS, WEST HAV ELEMENTARY SCHOOL SED# 50-02-01-06-014-XXX SED# 50-02-01-06-025-XXX SED# 50-02-01-06-024-XXX TEL: 860-514-1100 FAX: 860-514-1101 WWW.GP-ARCH.COM |
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| SECOND FLOOR REMOVAL - MECHANICAL | WHES-M-064 |
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KEYED NOTES:

- (1) EXISTING EXHAUST FAN TO REMAIN AND BALANCED AS NECESSARY .
(2) FRESH AIR INTAKE FOR FRESH AIR SYSTEM TO REMAIN.
(3) EXISTING CONDENSER FOR EXISTING WALL HUNG UNIT TO REMAIN.



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MEASURE 1" THEN DRAWING IS
NOT TO FULL SCALE

1 ROOF PARTIAL REMOVAL - MECHANICAL - 1
SCALE: 3/32" = 1'-0"

Drawing Title
**ROOF REMOVAL -
MECHANICAL**

Drawing No.

WHES-M-065



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THIELS, WEST HAV
ELEMENTARY SCHOOL
SSD# 50-02-01-06-0-014-XXX
SSD# 50-02-01-06-0-025-XXX
SSD# 50-02-01-06-0-024-XXX
NY REG. ARCHT. NO. 10995
HARRISBURG, NY 10995

Mechanical
Structural
Engineer:

GREENMAN
PEDERSEN, INC
2 EXECUTIVE BOULEVARD
SUITE 200
SUFFERN, NY 10901
PROJ. NO. : MNY-5000127.00

Structural
Engineer:

GREENMAN
PEDERSEN, INC
2 EXECUTIVE BOULEVARD
SUITE 200
SUFFERN, NY 10901

Drawn by VF /AW

Checked by EF

Project No. 43040

Scale AS NOTED

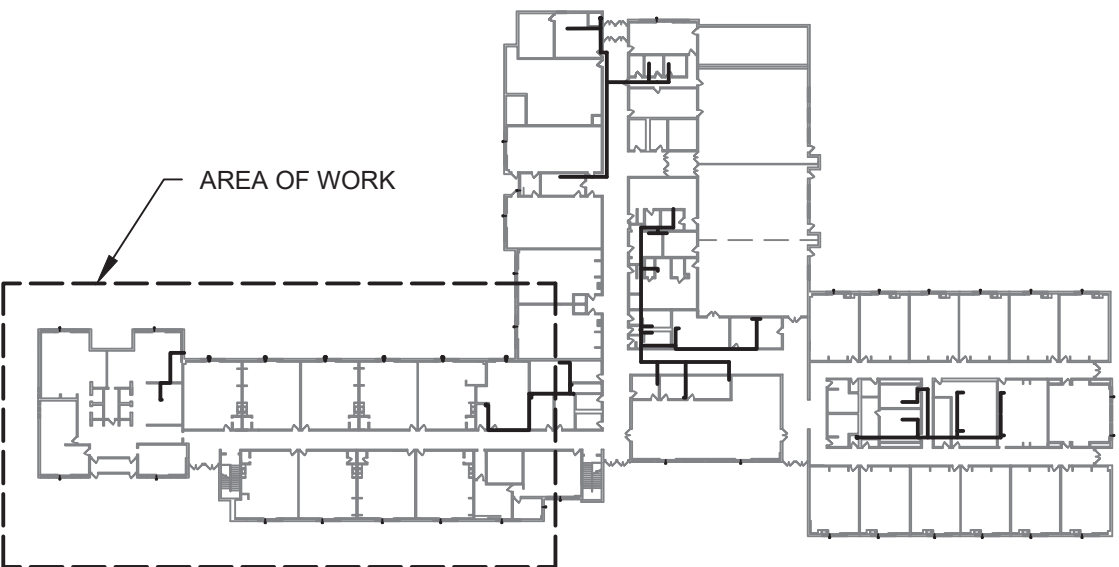
Date 03-04-25

Revisions

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Date

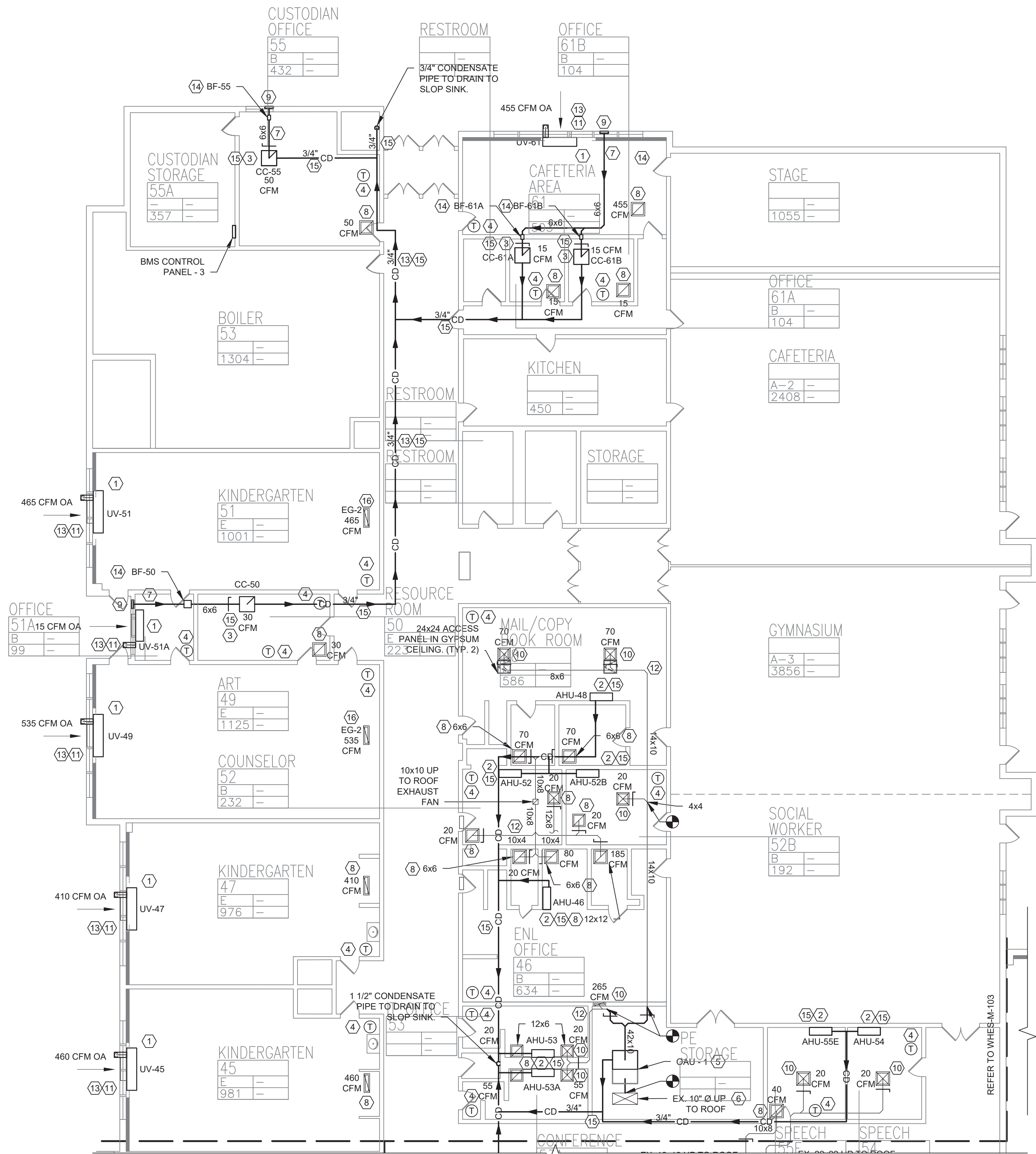
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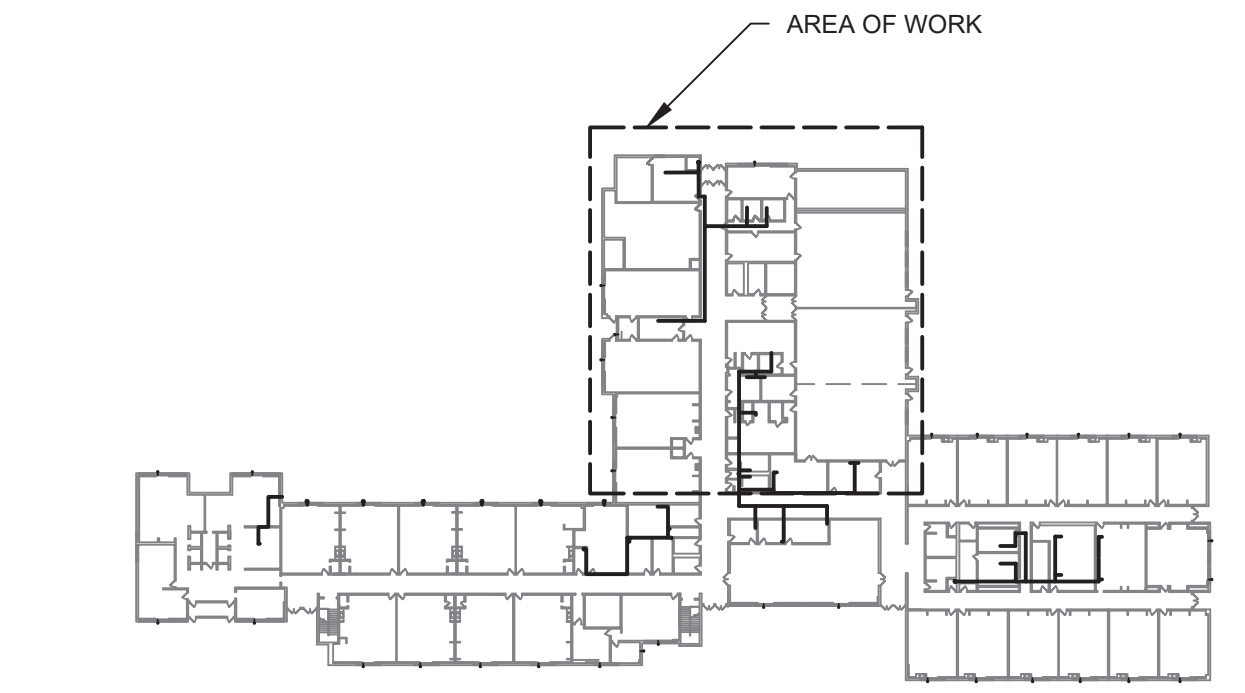
PLAN NORTH

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Drawing No. **WHES-M-101**



1 FIRST FLOOR PARTIAL PLAN - MECHANICAL - 2
SCALE: 3/32" = 1'-0"



KEY PLAN



- KEYED NOTES:**
1. INSTALL AND CONNECT DX HEAT PUMP WITH HOT WATER BACKUP UNIT VENTILATOR, CONNECT HOT WATER SUPPLY AND RETURN TO EXISTING HOT WATER SYSTEM. CONNECT TO EXISTING OUTSIDE SLEEVE, PATCH AND MODIFY AS REQUIRED. SEE DETAILS 5/M501, 2/M502, 3/M502.
 2. INSTALL AND CONNECT WALL HUNG AIR HANDLER, CONDENSATE PUMP AND DRAIN PIPING. SEE INSTALLATION MANUAL.
 3. INSTALL AND CONNECT CEILING, CONDENSATE PUMP, AND FRESH AIR DUCT AS INDICATED. SEE DETAIL 1/M503.
 4. INSTALL AND CONNECT SYSTEM THERMOSTAT.
 5. INSTALL OAU - 1, CONNECT TO EXISTING FRESH AIR DISTRIBUTION SYSTEM. SEE DETAIL 4/M504.
 6. FRESH AIR DUCT UP THROUGH ROOF TO REMAIN.
 7. INSTALL 6"x6" FRESH AIR DUCT IN SUSPENDED CEILING. SEE M502 AND M504 FOR DUCTWORK INSTALLATION DETAILS.
 8. BALANCE EXISTING ROOM AND BATHROOM EXHAUST.
 9. INSTALL NEW WALL LOUVER AND BIRD SCREEN, SEE DETAIL 5/M504.
 10. BALANCE FRESH AIR SUPPLY.
 11. CONNECT EXISTING OUTSIDE LOUVER AND SLEEVE TO REMAIN.
 12. INSULATED ALL EXISTING DUCTWORK.
 13. INSTALL 3/4" COPPER CONDENSATE PIPE TO RUN OUTSIDE ON SPLASH BLOCK.
 14. PROVIDE INLINE BOOSTER FAN, SEE BOOSTER FAN SCHEDULE ON WHES-M-003.
 15. INSTALL 3/4" COPPER CONDENSATE PIPING ABOVE CEILING TO RUN OUTSIDE ON SPLASH OR NEAREST JANITORS CLOSET.
 16. INSTALL AND BALANCE NEW EXHAUST GRILLE.

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IF THIS BAR DOES NOT
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| 1 | 03-04-25 | BIDDING DOCUMENTS |

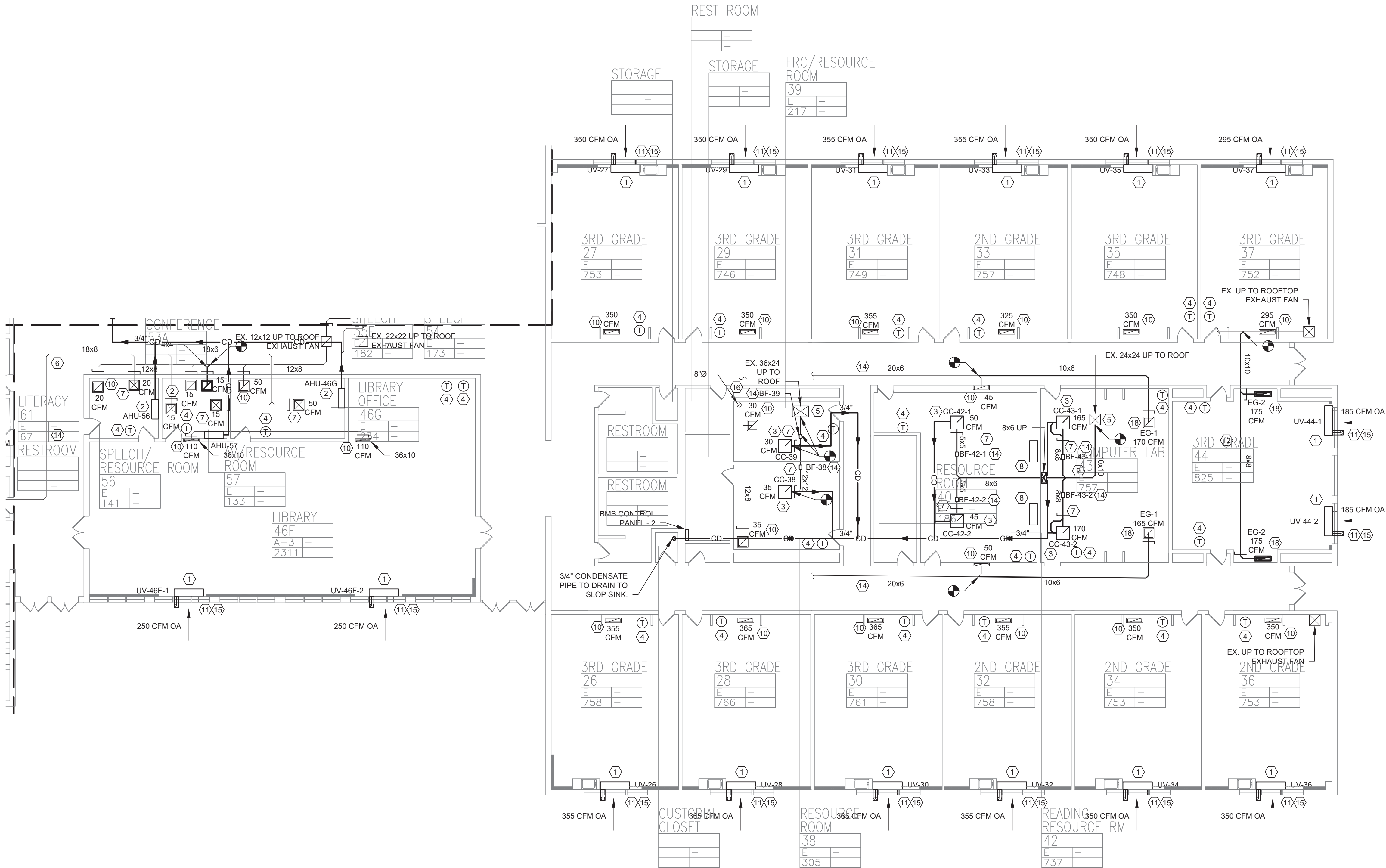
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| Date | 03-04-25 |

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**UNIVENT REPLACEMENT
AT STONY POINT,
THIELS, WEST HAV
ELEMENTARY SCHOOL**
SED# 50-02-01-06-0-014-XXX
SED# 50-02-01-06-0-024-XXX
SED# 50-02-01-06-0-024-XXX
UNIVENT REPLACEMENT
AT STONY POINT,
THIELS, WEST HAV
ELEMENTARY SCHOOL

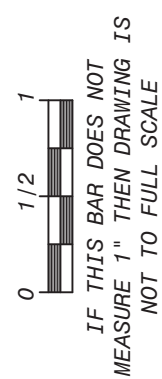
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Drawing Title
**FIRST FLOOR PARTIAL
PLAN - MECHANICAL -
2**
Drawing No.
WHES-M-102



KEYED NOTES:

1. INSTALL AND CONNECT DX HEAT PUMP WITH HOT WATER BACKUP UNIT VENTILATOR. CONNECT HOT WATER SUPPLY AND RETURN TO EXISTING HOT WATER SYSTEM. CONNECT TO EXISTING OUTSIDE SLEEVE. PATCH AND MODIFY AS REQUIRED. SEE DETAILS 5/M501, 2/M502, 3/M502.
2. INSTALL AND CONNECT WALL HUNG AIR HANDLER, CONDENSATE PUMP AND DRAIN PIPING. SEE INSTALLATION MANUAL.
3. INSTALL AND CONNECT CEILING CASSETTE, CONDENSATE PIPE, AND FRESH AIR DUCT AS INDICATED. SEE DETAIL 1/M503.
4. INSTALL AND CONNECT SYSTEM THERMOSTAT.
5. EXISTING UP DUCT UP TO FRESH AIR TO REMAIN.
6. EXISTING FRESH AIR DISTRIBUTION SYSTEM TO REMAIN.
7. BALANCE FRESH AIR.
8. EXISTING WALL HUNG UNITS TO REMAIN.
9. INSTALL AND CONNECT FRESH AIR DUCT SEE M502 AND M504 FOR DUCTWORK INSTALLATION DETAILS.
10. BALANCE EXISTING ROOM AND BATHROOM EXHAUST.
11. CONNECT EXISTING OUTSIDE LOUVER AND SLEEVE TO REMAIN.
12. INSTALL AND CONNECT NEW EXHAUST DUCT ABOVE CEILING. SEE M502 AND M504 FOR DUCTWORK INSTALLATION DETAILS.
13. BALANCE NEW EXHAUST.
14. INSULATE ALL EXISTING DUCTWORK.
15. INSTALL 3/4" COPPER CONDENSATE PIPE TO RUN OUTSIDE ON SPLASH BLOCK.
16. PROVIDE INLINE BOOSTER FAN, SE BOOSTER FAN SCHEDULE ON WHES-M-003.
17. INSTALL 3/4" COPPER CONDENSATE PIPING ABOVE CEILING TO RUN OUTSIDE ON SPLASH OR NEAREST JANITORS CLOSET.
18. INSTALL AND BALANCE NEW EXHAUST GRILLE.



KEY PLAN



PLAN NORTH

| Revisions | |
|-----------|----------|
| No. | Date |
| 1 | 03-04-25 |



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| Drawn by | VF /AW |
| Checked by | EF |
| Project No. | 43040 |
| Scale | AS NOTED |
| Date | 03-04-25 |

| | |
|----------------------|---|
| Mechanical Engineer: | GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 200 ROCKY HILL, CT 06067 TEL: 860-514-1100 FAX: 860-514-1101 |
| | PROJECT NO.: 43040 |
| Structural Engineer: | GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 200 ROCKY HILL, CT 06067 TEL: 860-514-1100 FAX: 860-514-1101 |
| | PROJECT NO.: 43040 |

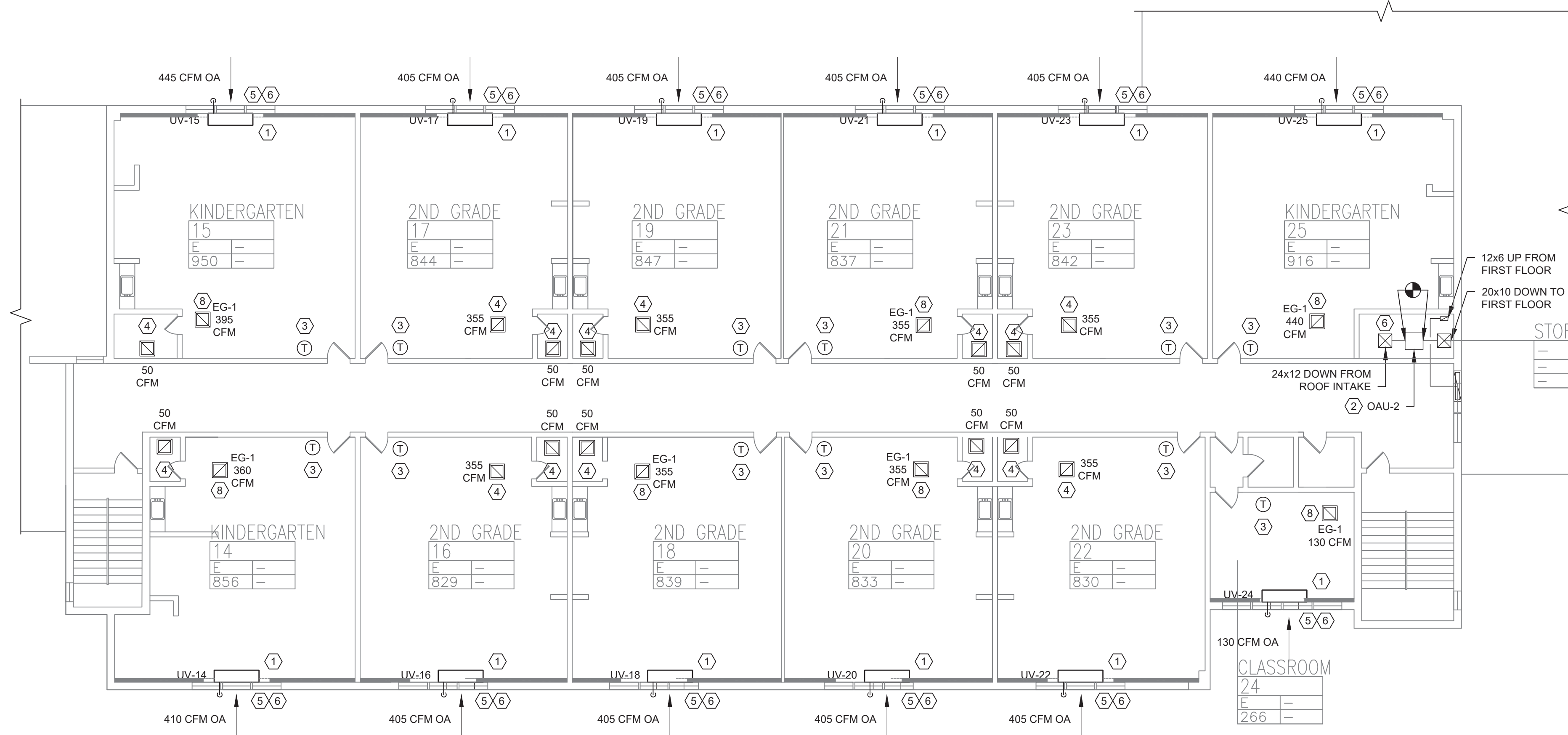
**UNIVERT REPLACEMENT
AT STONY POINT,
THIELS, WEST HAVEN
ELEMENTARY SCHOOL**
SDD# 50-02-01-06-0-014-XXX
SDD# 50-02-01-06-0-024-XXX
SDD# 50-02-01-06-0-024-XXX
SDD# 50-02-01-06-0-024-XXX
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HARTFORD, CT 06106



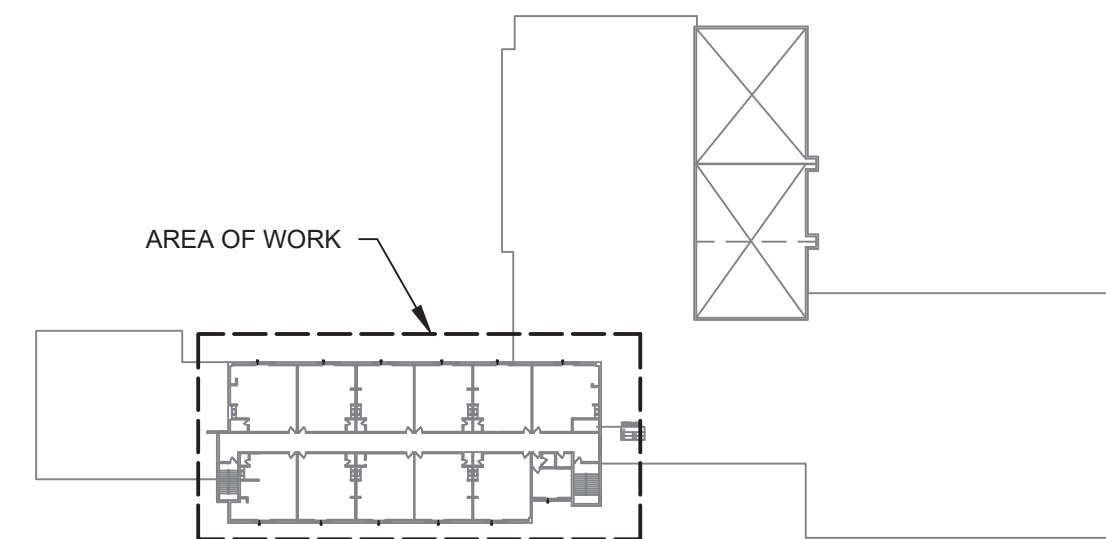
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Drawing Title
PLAN - MECHANICAL -
3

Drawing No.
WHES-M-103



1 SECOND FLOOR PARTIAL PLAN - MECHANICAL - 1
SCALE: 3/32" = 1'- 0"



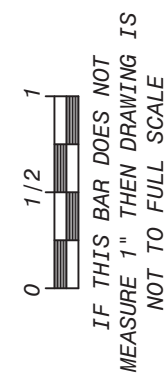
KEY PLAN



PLAN NORTH

KEYED NOTES:

- 1 INSTALL AND CONNECT DX HEAT PUMP WITH HOT WATER BACKUP UNIT VENTILATOR, CONNECT HOT WATER SUPPLY AND RETURN TO EXISTING HOT WATER SYSTEM. CONNECT TO EXISTING OUTSIDE SLEEVE, PATCH AND MODIFY AS REQUIRED. SEE DETAILS 5/M501, 2/M502, 3/M502.
- 2 INSTALL OAU - 2, CONNECT TO EXISTING FRESH AIR DISTRIBUTION SYSTEM. SEE DETAIL 4/M504.
- 3 INSTALL AND CONNECT SYSTEM THERMOSTAT.
- 4 BALANCE EXISTING ROOM AND BATHROOM EXHAUST.
- 5 CONNECT EXISTING OUTSIDE LOUVER AND SLEEVE TO REMAIN.
- 6 INSULATE ALL EXISTING DUCTWORK.
- 7 INSTALL 3/4" COPPER CONDENSATE PIPE TO RUN OUTSIDE
- 8 INSTALL AND BALANCE NEW EXHAUST GRILLE.



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| Project No. | 43040 |
| Scale | AS NOTED |
| Date | 03-04-25 |

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| GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 200 SYRACUSE, NY 13201 PROJ. NO. : MNY-5000127.00 | GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 200 SYRACUSE, NY 13201 |
| Mechanical Structural Engineer: | Structural Engineer: |

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| UNIVENT REPLACEMENT AT STONY POINT, THIELS, WEST HAV ELEMENTARY SCHOOL SSD# 50-02-01-06-0-014-XXX SSD# 50-02-01-06-0-025-XXX SSD# 50-02-01-06-0-024-XXX NY STATE ARCHITECTURAL BOARD REGISTERED ARCHITECT HARRISBURG, NY 16033 |
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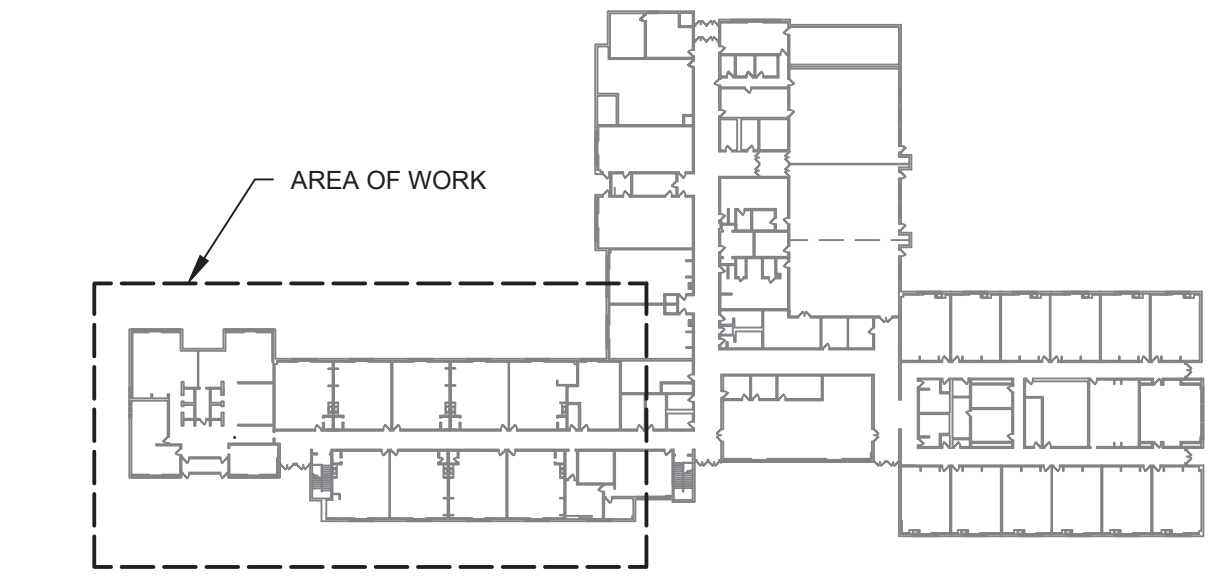
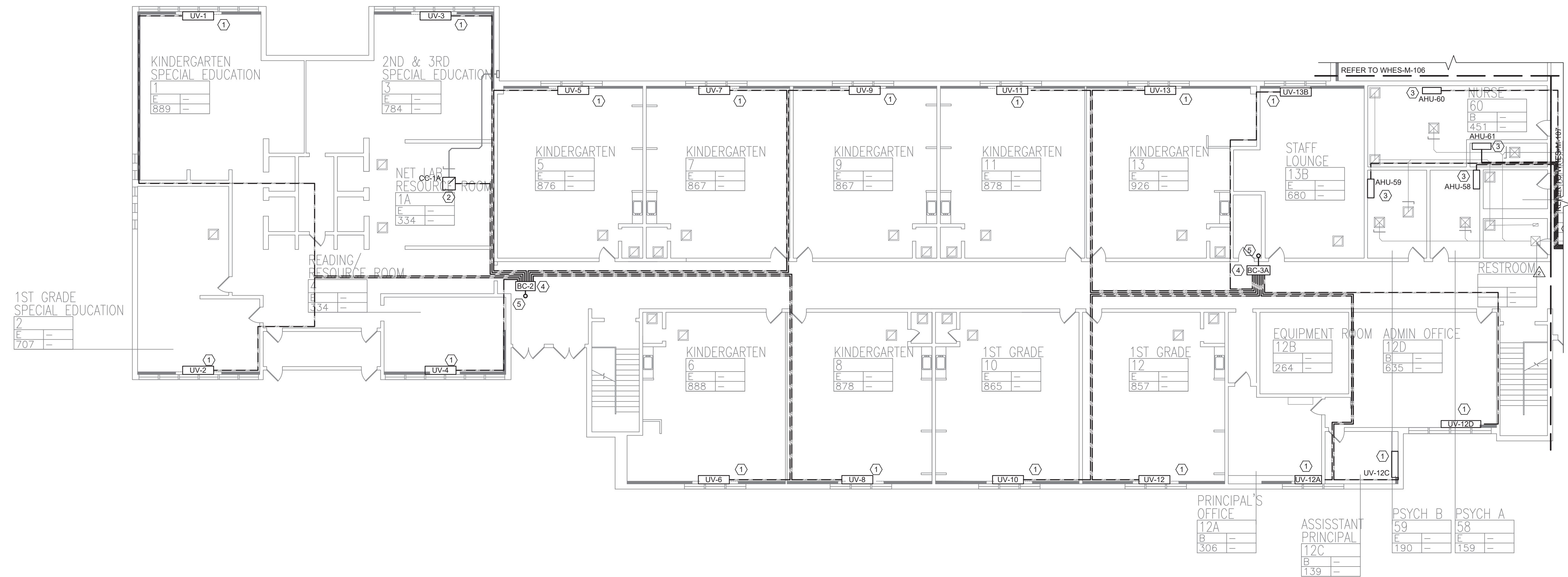
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Drawing Title
**SECOND FLOOR PLAN -
MECHANICAL**

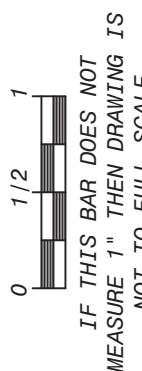
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WHES-M-104

| No. | Date | Revisions |
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| 1 | 03-04-25 | BIDDING DOCUMENTS |
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- KEYED NOTES:**
- ① NEW UNIT VENTILATOR.
 - ② NEW CEILING CASSETTE.
 - ③ NEW WALL HUNG AC UNIT.
 - ④ INSTALL BRANCH CONTROLLER IN SUSPENDED CEILING. SEE DETAIL 5/M502.
 - ⑤ INSTALL, ROUTE, AND CONNECT REFRIGERANT PIPING AS INDICATED ABOVE SUSPENDED CEILING.



1 MECHANICAL FIRST FLOOR PARTIAL PLAN - REFRIGERANT PLAN - 1
SCALE: 3/32" = 1'-0"



| No. | Date | Revisions |
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| 1 | 03-04-25 | BIDDING DOCUMENTS |
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| Checked by | EF |
| Project No. | 43040 |
| Scale | AS NOTED |
| Date | 03-04-25 |

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| GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 200 ROCKY HILL, CT 06067 TEL: 860-514-1100 FAX: 860-514-1101 WWW.GREENMANPEDERSEN.COM | MECHANICAL ENGINEER |
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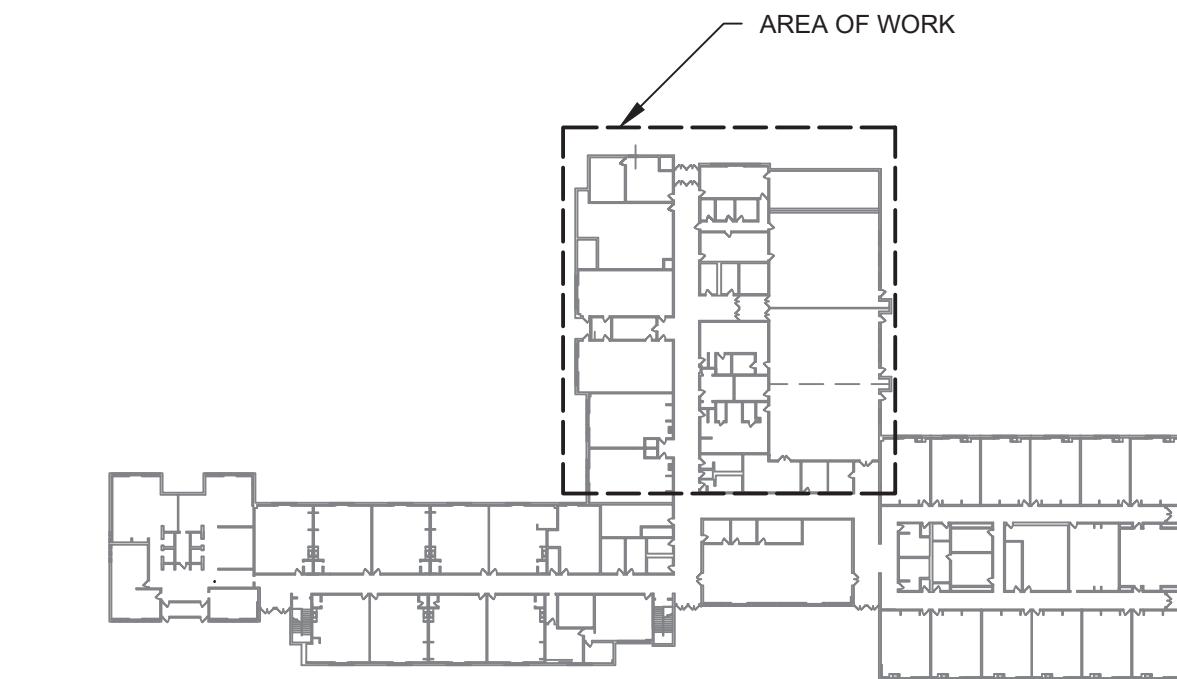
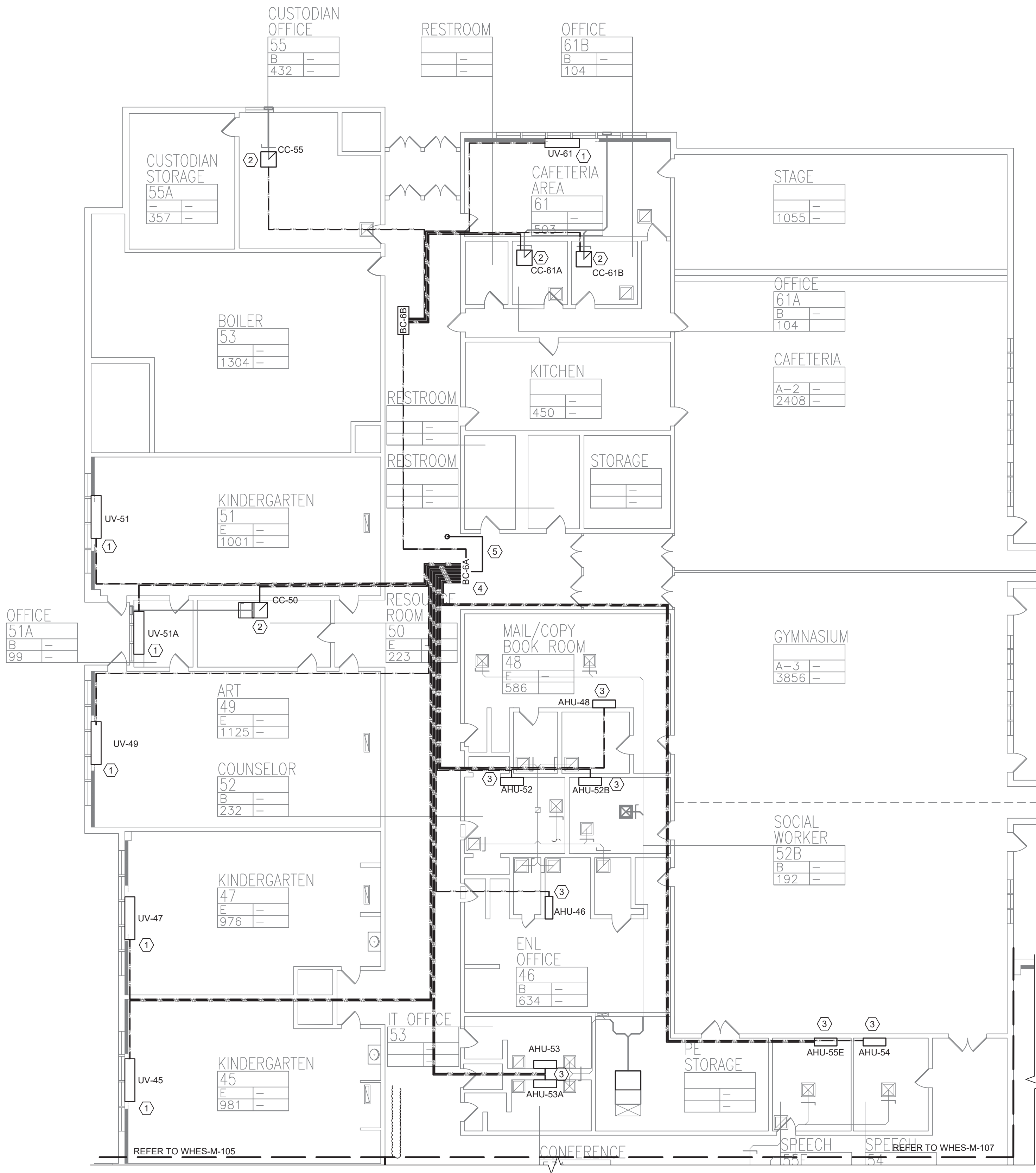
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SED# 50-02-01-06-0-014-XXX
SED# 50-02-01-06-0-025-XXX
SED# 50-02-01-06-0-024-XXX
1000 WEST HAVEN AVENUE
WEST HAVEN, CT 06611



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Mechanical First Floor Part. Plan - Refg. Piping - 1

WHES-M-105



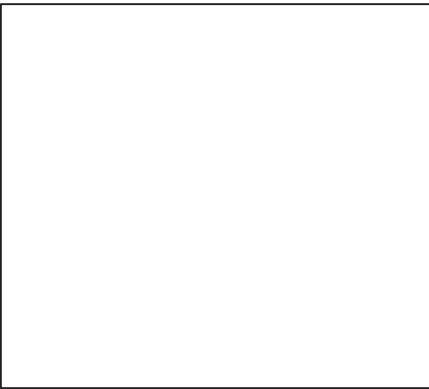
KEYED NOTES:

- 1 NEW UNIT VENTILATOR.
- 2 NEW CEILING CASSETTE.
- 3 NEW WALL HUNG AC UNIT.
- 4 INSTALL BRANCH CONTROLLER IN SUSPENDED CEILING. SEE DETAIL 5/M502.
- 5 INSTALL, ROUTE, AND CONNECT REFRIGERANT PIPING AS INDICATED ABOVE SUSPENDED CEILING.

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NOT TO FULL SCALE

1 MECHANICAL FIRST FLOOR PARTIAL PLAN - REFRIGERANT PLAN - 2
SCALE: 3/32" = 1'-0"

| Revisions | |
|-----------|----------------------------|
| No. | Date |
| 1 | 03-04-25 BIDDING DOCUMENTS |



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| Mechanical Electrical Engineer: | GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 200 ROCKY HILL, CT 06067 TEL: 860-514-1100 FAX: 860-514-1101 WWW.GPMI.COM |
| | PROJ. NO. : MNY-2000127.00 |
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| | PROJ. NO. : MNY-2000127.00 |

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SDD# 50-02-01-06-0-024-XXX
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Drawing No.
WHES-M-106

First Floor Part,
PLAN - REFG. PIPING -
2



KEY PLAN

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PLAN NORT

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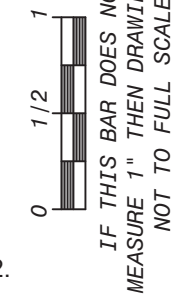
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SED # 50-02-01-06-0-025-XXX
SED # 50-02-01-06-0-024-XXX

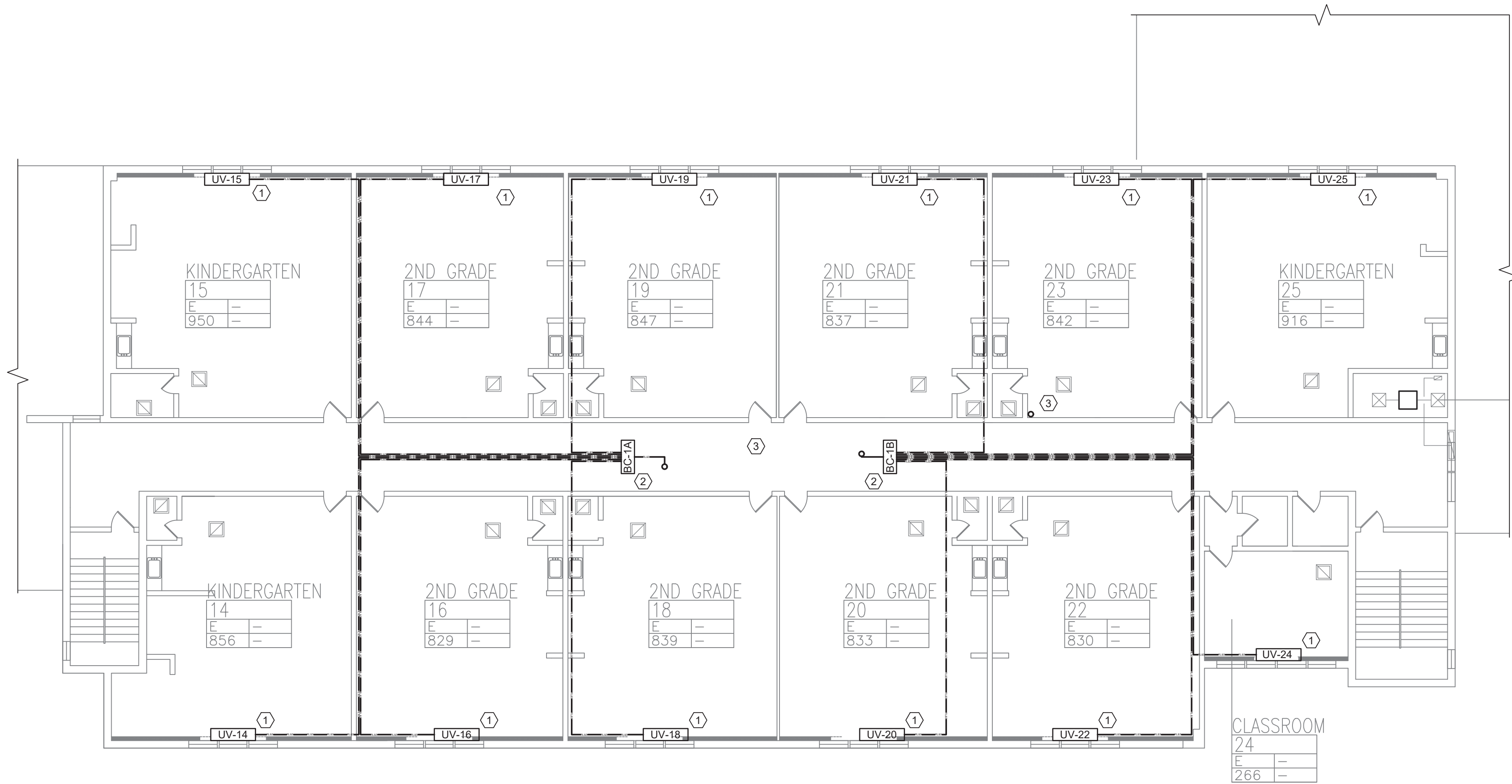
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| Checked by | EF |
| Project No. | 43040 |
| Scale | AS NOTED |
| Date | |

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- ① NEW UNIT VENTILATOR.
- ② NEW CEILING CASSETTE.
- ③ NEW WALL HUNG AC UNIT.
- ④ INSTALL BRANCH CONTROLLER IN SUSPENDED CEILING. SEE DETAIL 5/M502.
- ⑤ INSTALL, ROUTE, AND CONNECT REFRIGERANT PIPING AS INDICATED ABOVE SUSPENDED CEILING.



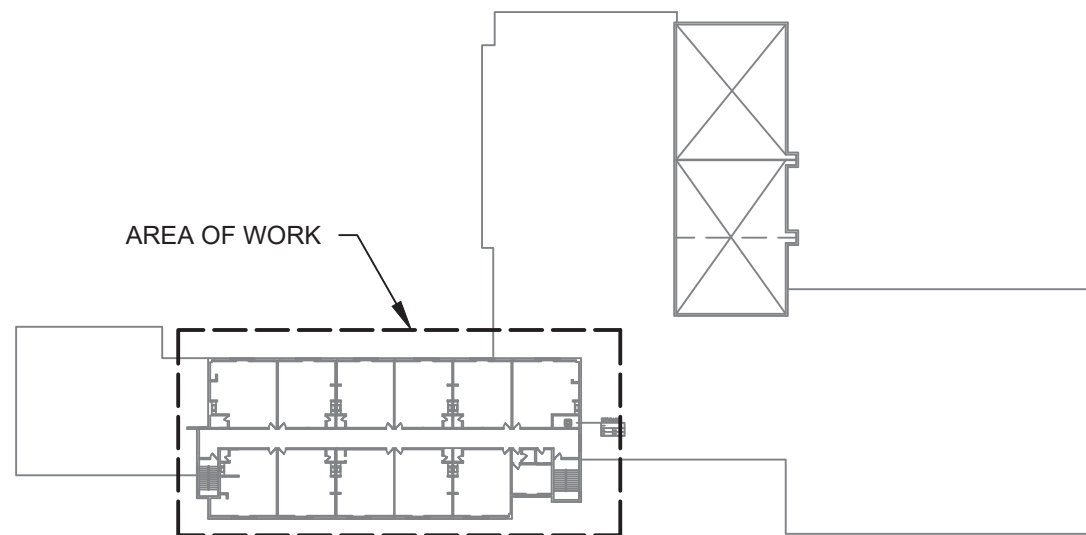
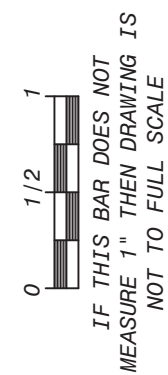
1 MECHANICAL FIRST FLOOR PARTIAL PLAN - REFRIGERANT PLAN - 3
SCALE: 3/32" = 1'-0"



1 MECHANICAL SECOND FLOOR PARTIAL PLAN - REFRIGERANT PLAN - 1
SCALE: 3/32" = 1'-0"

KEYED NOTES:

- ① NEW UNIT VENTILATOR.
- ② INSTALL BRANCH CONTROLLER IN SUSPENDED CEILING. SEE DETAIL 5/M502.
- ③ INSTALL, ROUTE, AND CONNECT REFRIGERANT PIPING AS INDICATED ABOVE SUSPENDED CEILING.



KEY PLAN



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Drawing Title
**SECOND FLOOR PLAN -
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Drawing No.

WHES-M-108

Mechanical
Electrical
Engineer:

**GREENMAN
PEDERSEN, INC**
2 EXECUTIVE BOULEVARD
SUITE 200
SUFFERN, NY 10901
PROJ. No. : MNY-5000127.00

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Checked by EF

Project No. 43040

Scale AS NOTED

Date 03-04-25

Structural
Engineer:

**GREENMAN
PEDERSEN, INC**
2 EXECUTIVE BOULEVARD
SUITE 200
SUFFERN, NY 10901

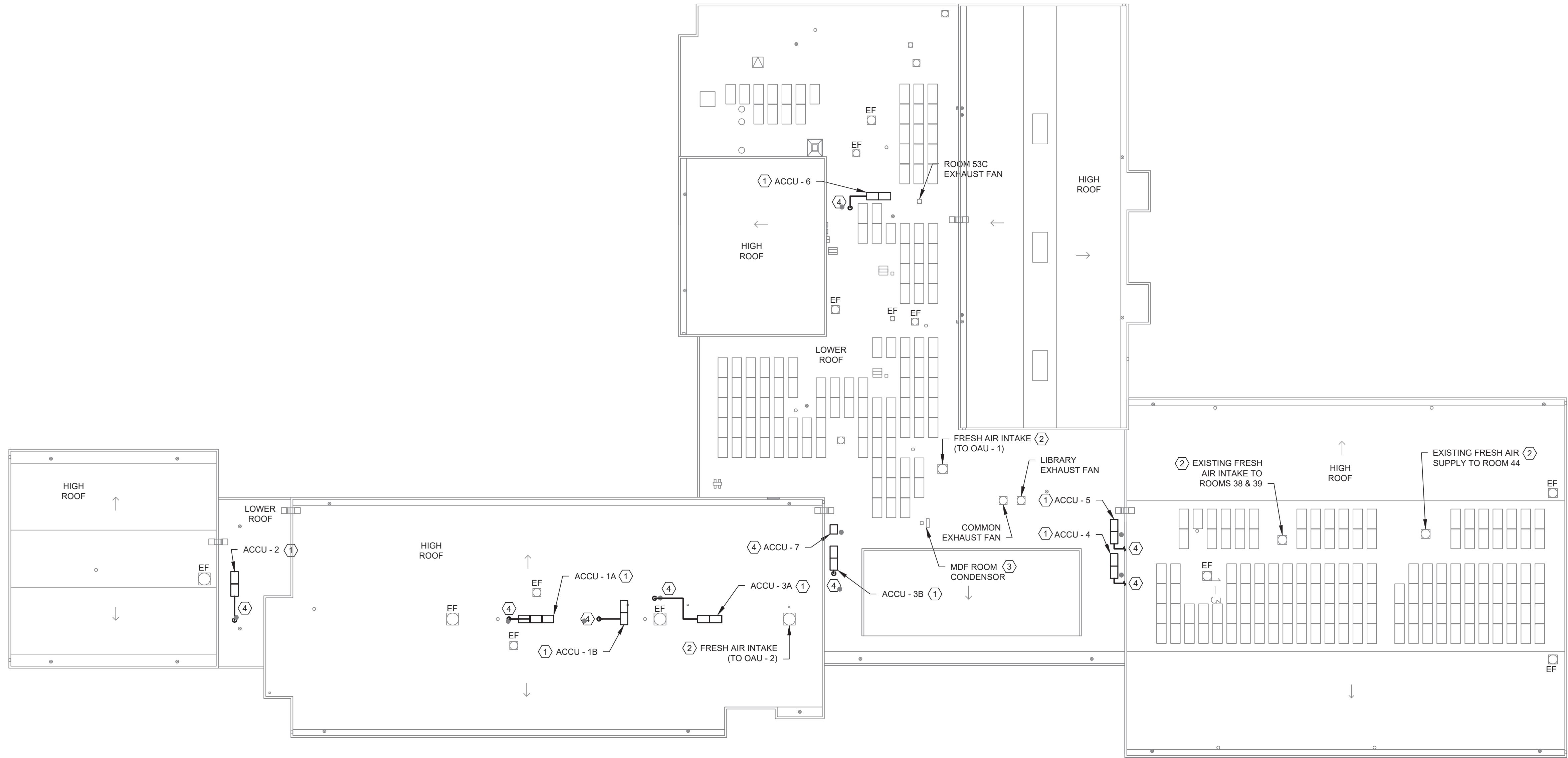
**UNIVENT REPLACEMENT
AT STONY POINT,
THIELS, WEST HAV
ELEMENTARY SCHOOL**

SED# 50-02-01-06-0-014-XXX
SED# 50-02-01-06-0-025-XXX
SED# 50-02-01-06-0-024-XXX

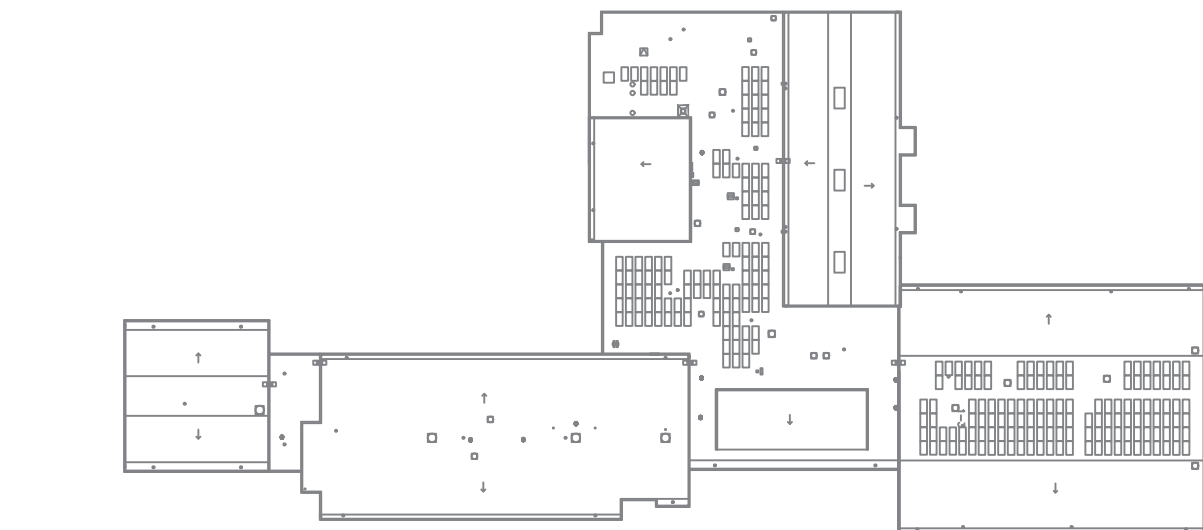
NY REG. ARCH. NO. 10993
NYS REG. ELEC. NO. 10993
HARRISTOWN, NY 10953

No. Date Revisions

1 03-04-25 BIDDING DOCUMENTS



1 MECHANICAL ROOF PLAN
SCALE: 3/64" = 1'-0"



KEY PLAN



PLAN NORTH

KEYED NOTES:

- 1 INSTALL AND CONNECT ACCU AS SHOWN. SEE STRUCTURAL DRAWINGS FOR COORDINATION AS REQUIRED. SEE DETAILS 1/M502, 2/M503, 3/M503, AND 4/M503.
- 2 FRESH AIR INTAKE FOR FRESH AIR SYSTEM TO REMAIN.
- 3 EXISTING CONDENSER FOR EXISTING WALL HUNG UNIT TO REMAIN.
- 4 REFRIGERANT LIQUID AND SUCTION PIPING.

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| Mechanical Engineer: | GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 200 SYRACUSE, NY 13202 PROJ. NO. : MNY-2000127.00 |
| Structural Engineer: | GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 200 SYRACUSE, NY 13202 |

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| UNIVENT REPLACEMENT AT STONY POINT, THIELS, WEST HAV ELEMENTARY SCHOOL SSD# 50-02-01-06-0-014-XXX SSD# 50-02-01-06-0-024-XXX SSD# 50-02-01-06-0-024-XXX NY REG. NO. 00000000000000000000 HARRISBURG, NY 16801 |
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Drawing Title
**ROOF PLAN -
MECHANICAL**

Drawing No.
WHES-M-109

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| 1 | 03-04-25 | BIDDING DOCUMENTS |

THE BUILDING AUTOMATION SYSTEM (BAS) SHALL SEND THE CONTROLLER OCCUPIED BYPASS, MORNING WARM-UP / PRE-COOL, OCCUPIED / UNOCCUPIED AND HEAT / COOL MODES. IF A BAS IS NOT PRESENT, OR COMMUNICATION IS LOST WITH THE BAS THE CONTROLLER SHALL OPERATE USING DEFAULT MODES AND SETPOINTS.

DURING OCCUPIED PERIODS THE SUPPLY FAN WILL RUN CONTINUOUSLY AND THE OUTSIDE AIR DAMPER WILL OPEN TO MAINTAIN MINIMUM VENTILATION REQUIREMENTS. VRF HEATING/COOLING OR THE HOT WATER COIL VALVE WILL OPERATE TO MAINTAIN THE ACTIVE SPACE TEMPERATURE SETPOINT. VRF HEATING WILL OPERATE AS THE FIRST FORM OF HEAT. THE UNIT WILL UTILIZE HOT WATER HEAT AND FIN TUBE RADIATION IN CONDITIONS WHERE VRF HEAT IS NOT ABLE TO MEET THE HEATING DEMAND.

WHEN THE SPACE TEMPERATURE IS BELOW THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F (ADJ.), THE SUPPLY FAN WILL START, THE OUTSIDE AIR DAMPER WILL REMAIN CLOSED AND HEATING WILL BE ENABLED. WHEN THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F (ADJ.) PLUS THE UNOCCUPIED DIFFERENTIAL OF 2.0 DEG. F (ADJ.) THE SUPPLY FAN WILL STOP AND HEATING WILL BE DISABLED. WHEN THE SPACE TEMPERATURE IS ABOVE THE UNOCCUPIED COOLING SETPOINT OF 85.0 DEG. F (ADJ.), THE SUPPLY FAN WILL START, THE OUTSIDE AIR DAMPER WILL OPEN IF ECONOMIZING IS ENABLED AND REMAIN CLOSED IF ECONOMIZING IS DISABLED AND COOLING WILL MODULATE TO MAINTAIN THE SETPOINT. WHEN THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED COOLING SETPOINT MINUS THE UNOCCUPIED DIFFERENTIAL OF 4.0 DEG. F (ADJ.) THE SUPPLY FAN WILL STOP, COOLING WILL BE DISABLED AND THE OUTSIDE AIR DAMPER WILL CLOSE.

THE BAS SHALL MONITOR THE SCHEDULED OCCUPIED TIME, OCCUPIED SPACE SETPOINTS AND SPACE TEMPERATURE TO CALCULATE WHEN THE OPTIMAL START OCCURS.

DURING OPTIMAL STAR, WHEN THE SPACE TEMPERATURE IS BELOW THE OCCUPIED HEATING SETPOINT, A MORNING WARM-UP MODE WILL BE ACTIVATED. WHEN MORNING WARM-UP IS INITIATED, THE UNIT WILL ENABLE THE HEATING AND SUPPLY FAN. THE OUTSIDE AIR DAMPER WILL REMAIN CLOSED. WHEN THE SPACE TEMPERATURE REACHES THE OCCUPIED HEATING SETPOINT (ADJ.), THE UNIT WILL TRANSITION TO THE OCCUPIED MODE.

DURING OPTIMAL START, WHEN THE SPACE TEMPERATURE IS ABOVE THE OCCUPIED COOLING SETPOINT, PRE-COOL MODE WILL BE ACTIVATED. WHEN PRE-COOL IS INITIATED, THE UNIT WILL ENABLE THE FAN AND COOLING OR ECONOMIZER. THE OUTSIDE AIR DAMPER WILL REMAIN CLOSED, UNLESS ECONOMIZING. WHEN THE SPACE TEMPERATURE REACHES OCCUPIED COOLING SETPOINT (ADJ.), THE UNIT WILL TRANSITION TO THE OCCUPIED MODE.

THE BAS SHALL MONITOR THE STATUS OF THE "ON" AND "CANCEL" BUTTONS OF THE SPACE TEMPERATURE SENSOR OR MOVEMENT AS DETECTED BY A SPACE OCCUPANCY SENSOR. WHEN AN OCCUPIED BYPASS REQUEST IS RECEIVED FROM A SPACE SENSOR, THE UNIT SHALL TRANSITION FROM ITS CURRENT OCCUPANCY MODE TO OCCUPIED BYPASS MODE AND THE UNIT SHALL MAINTAIN THE SPACE TEMPERATURE TO THE OCCUPIED SETPOINTS (ADJ.).

CASCADE ZONE CONTROL WILL BE USED IN THE OCCUPIED, OCCUPIED BYPASS, AND OCCUPIED STANDBY MODES. IT MAINTAINS ZONE TEMPERATURE BY CONTROLLING THE DISCHARGE AIR TEMPERATURE TO CONTROL THE ZONE TEMPERATURE WHILE MINIMIZING THE FAN SPEED. THE SPACE TEMPERATURE WILL BE MAINTAINED BETWEEN THE OCCUPIED COOLING SETPOINT OF 74.0 DEG. F (ADJ.) AND THE OCCUPIED HEATING SETPOINT OF 70.0 DEG. F (ADJ.). THE UNIT WILL TRANSITION TO THE COOLING MODE WHEN THE SPACE TEMPERATURE RISES ONE DEGREE ABOVE THE OCCUPIED COOLING SETPOINT OF 74.0 DEG. F (ADJ.). THE UNIT WILL TRANSITION TO THE HEATING MODE WHEN THE SPACE TEMPERATURE DROPS ONE DEGREE BELOW THE OCCUPIED HEATING SETPOINT OF 70.0 DEG. F (ADJ.).

ECONOMIZING WILL BE ENABLED WHEN THE OUTDOOR AIR TEMPERATURE IS BELOW THE ECONOMIZING ENABLE SETPOINT OF 65.0 DEG. F (ADJ.). ECONOMIZING WILL BE DISABLED WHEN THE OUTDOOR AIR TEMPERATURE IS GREATER THAN 5.0 DEG. F ABOVE THE ECONOMIZER ENABLE SETPOINT. WHEN ECONOMIZING IS ENABLED THE OUTSIDE AIR DAMPER WILL MODULATE BETWEEN THE MINIMUM DAMPER POSITION AND 100% OPEN TO MAINTAIN THE OCCUPIED COOLING SETPOINT. IF THE OUTDOOR AIR TEMPERATURE SENSOR FAILS,

THE SUPPLY FAN SHALL CYCLE ON DEMAND DURING THE UNOCCUPIED MODE. WHEN THE CONTROLLER TRANSITIONS TO THE OCCUPIED MODE, THE SUPPLY FAN SHALL START AT HIGH SPEED BEFORE TRANSITIONING TO CONTINUOUS OPERATION AT THE SELECTED SPEED. THE SUPPLY FAN STATUS SHALL BE MONITORED BY A DIFFERENTIAL PRESSURE SWITCH. IF THE SUPPLY FAN FAILS THE FAN SHALL BE COMMANDED OFF AND AN ALARM WILL BE ANNUNCIATED AT THE BAS. A MANUAL RESET SHALL BE REQUIRED TO RESTART THE FAN.

A HARDWIRED, LOW LIMIT TEMPERATURE SWITCH WILL BE ELECTRICALLY INTERLOCKED WITH THE SAFETY CIRCUIT. IF THE LOW LIMIT TEMPERATURE SWITCH IS TRIPPED 38.0 DEG. F (ADI.), THE SUPPLY FAN WILL BE COMMANDED OFF, WATER VALVES WILL OPEN TO 100%, OUTSIDE AIR DAMPER WILL CLOSE, AND AN ALARM WILL BE ANNUNCIATED AT THE BAS. THE CONTROLLER WILL AUTOMATICALLY ATTEMPT TO RESTART THE UNIT AFTER 30 MINUTES. IF THE UNIT RESTARTS SUCCESSFULLY WITH NO LOW TEMPERATURE CONDITION, THE DIAGNOSTIC IS CLEARED. IF A SECOND LOW TEMPERATURE CONDITION OCCURS WITHIN A 24 HOUR PERIOD THE UNIT WILL BE LOCKED OUT UNTIL MANUALLY RESET.

THE FAN-RUN TIME (HRS) WILL BE COMPARED TO THE FILTER MAINTENANCE TIMER SETPOINT. ONCE THE SETPOINT IS REACHED A FILTER TIMER ALARM DIAGNOSTIC WILL BE ANNUNCIATED AT THE BAS. WHEN THE DIAGNOSTIC IS CLEARED, THE FILTER-MAINTENANCE TIMER IS RESET TO ZERO, AND THE TIMER BEGINS ACCUMULATING FAN-RUN TIME AGAIN.

THE FIN TUBE RADIATOR WILL ACT AS SECOND STAGE OF HEAT.

The diagram illustrates a VAV system with a reheat coil. The main supply duct (SA) and return duct (RA) are shown. A VAV box (VRF) is connected to the supply duct, with a reheat coil (H) and a control valve (VAL) in the return duct. The VAV box has a reheat coil (H) and a control valve (VAL). The VAV box is connected to the supply duct (SA) and the return duct (RA). The VAV box has a reheat coil (H) and a control valve (VAL). The VAV box is connected to the supply duct (SA) and the return duct (RA). The VAV box has a reheat coil (H) and a control valve (VAL).

MODULATE TO

E SUPPLY FAN
PIED HEATING
HEATING WILL
F (ADJ.), THE
UNOCCUPIED
AND THE VRF

N TO INITIATE
ROLLER WILL
TEMPERATURE

N TO INITIATE
ROLLER WILL
TEMPERATURE

OA

ACTUATOR
INTLK

BOOSTER FAN

SPACE TEMP
AI
STPT
AI
TEMP

VRF
C

CMD BO

CMD BO

SA

UNIT VENTILATOR

REFRIGERANT SENSOR ①
REFRIGERANT SENSOR ②
AIR THERMISTOR ③
AIR THERMISTOR ④

LEV CONTROLLER
FIELD INSTALLED

208V POWER
FIELD INSTALLED

FIELD INSTALLED
STEP-UP
TRANSFORMER

UNIT POWER
115V

MISC. FIELD INSTALLED
DEVICES

CONTROL SIGNALS

FACTORY INSTALLED
HOT WATER VALVE

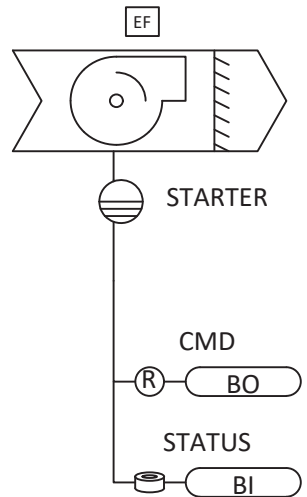
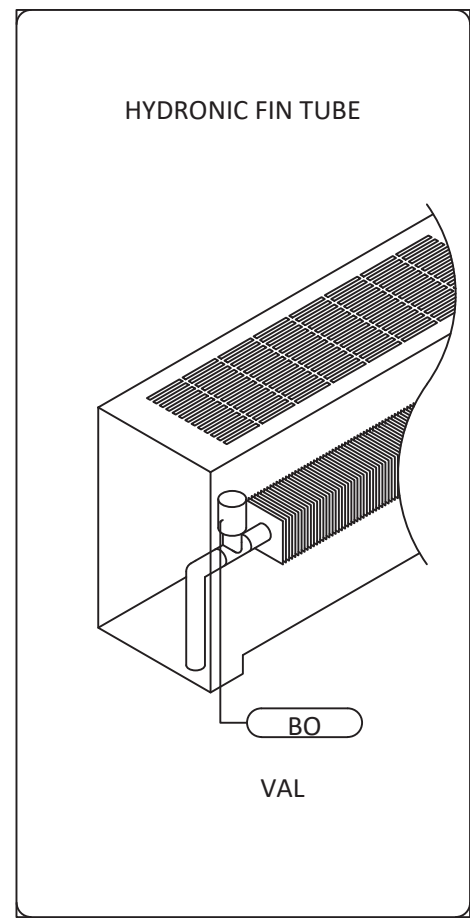
WIRELESS
COORDINATOR
FACTORY INSTALLED

SY400 DDC
CONTROLLER
FACTORY INSTALLED

FIELD INSTALLED
REFRIGERANT VALVE

ALL ITEMS DENOTED AS FIELD INSTALLED ARE TO BE
INSTALLED BY THE ATC CONTRACTOR. ATC
CONTRACTOR TO COORDINATE WITH EQUIPMENT
MANUFACTURER ON FURNISHING OF ITEMS

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INSTALLED BY THE ATC CONTRACTOR. ATC
CONTRACTOR TO COORDINATE WITH EQUIPMENT
MANUFACTURER ON FURNISHING OF ITEMS



OCCUPANCY CONTROL:
THE EXHAUST FANS WILL BE ENABLED WHEN THE CONTROLLER IS IN THE OCCUPIED MODE AND DISABLED IN THE UNOCCUPIED MODE. THE BAS WILL MONITOR FAN STATUS FOR ALARMING PURPOSES.

THE EXHAUST FANS WILL BE ENABLED WHEN THE CONTROLLER IS IN THE OCCUPIED MODE AND DISABLED IN THE UNOCCUPIED MODE. THE BAS WILL MONITOR FAN STATUS FOR ALARMING PURPOSES.

3 & SEQUE
SCALE: NONE

[illegible]

| | |
|-------------|----------|
| Drawn by | VF/AW |
| Checked by | EF |
| Project No. | 43040 |
| Scale | AS NOTED |
| Date | 03-04-25 |

| | |
|---|---|
| Mechanical & Electrical Engineer: | GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901 PHONE NO. : NY-2500086.00 |
| Structural Engineer: | GREENMAN PEDERSEN, INC 2 EXECUTIVE BOULEVARD SUITE 202 SUFFERN, NY 10901 |

UNIVENT REPLACEMENT AT
STONY POINT, THIELLS,
WEST HAVESTRAW
ELEMENTARY SCHOOL

SED# 50-02-01-06-0-014-012
SED# 50-02-01-06-0-025-018
SED# 50-02-01-06-0-024-015

WEST HAVESTRAW
ROCKLAND COUNTY
NEW YORK 10958
71 BLAINEWAY, NY 10958
HARVESTRAW, NY 10958

| | |
|---|----------------------------------|
| Drawing Title FLOW DIAGRAM AND SEQUENCE OF OPERATIONS | Drawing No. WHES-M-301 |
|---|----------------------------------|